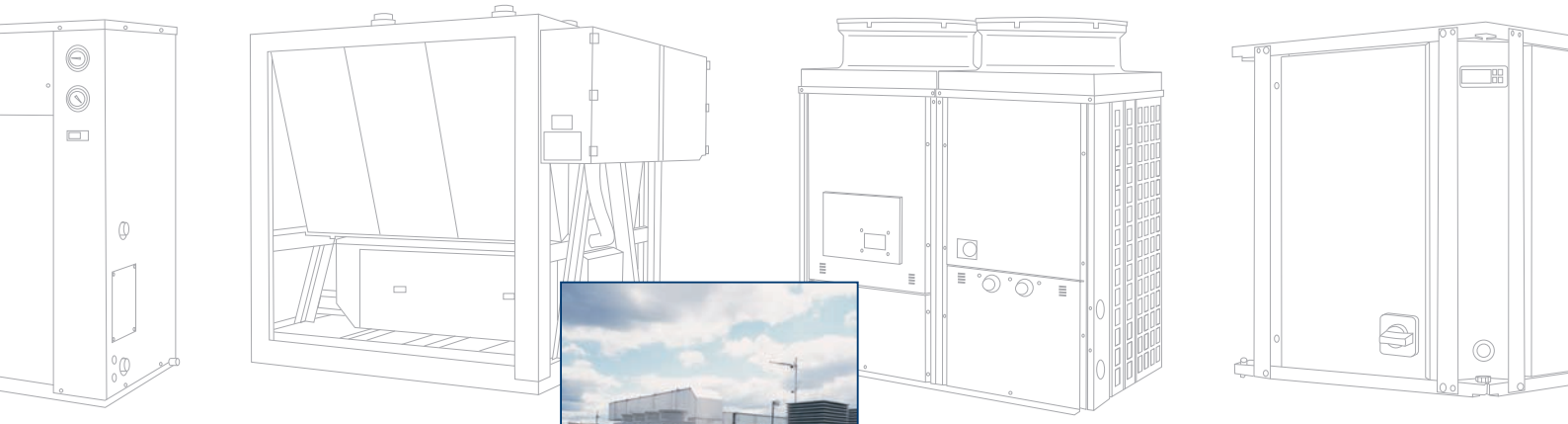
DAIKIN

EPCEN07-415



Great in cooling and heating

Applied Systems Catalogue

Intro

No matter how large your premises and whatever your air conditioning needs, there is a Daikin chilled water system to suit your requirements. It is a system that has proved its worth in a multiplicity of situations - from industrial sites to retail warehouses, hotels and department stores.

The careful development of closely matched compressor/ refrigerant combinations, has enabled Daikin to produce complete ranges of water chillers — genuinely optimised for use with R-134a, R-407C and R-410A refrigerants.

Daikin chillers offer the ultimate in flexibility and control — a reflection of the advanced technology inherent within them. Unique in their precision, power, low operating noise, easy maintenance and low running costs, Daikin chillers represent the sure and safe route to an indoor environment that is comfortable, clean and consistent.

As the world's only chiller manufacturer that makes its own refrigerant and compressors, Daikin has total control at the production stage.

It is this unique combination of advanced technology, experience and reliability that makes Daikin the obvious choice and long term solution for the professional.

This brochure provides an overview of Daikin chillers, including air cooled, water cooled and remote condenser systems and heat pump options.

H2O

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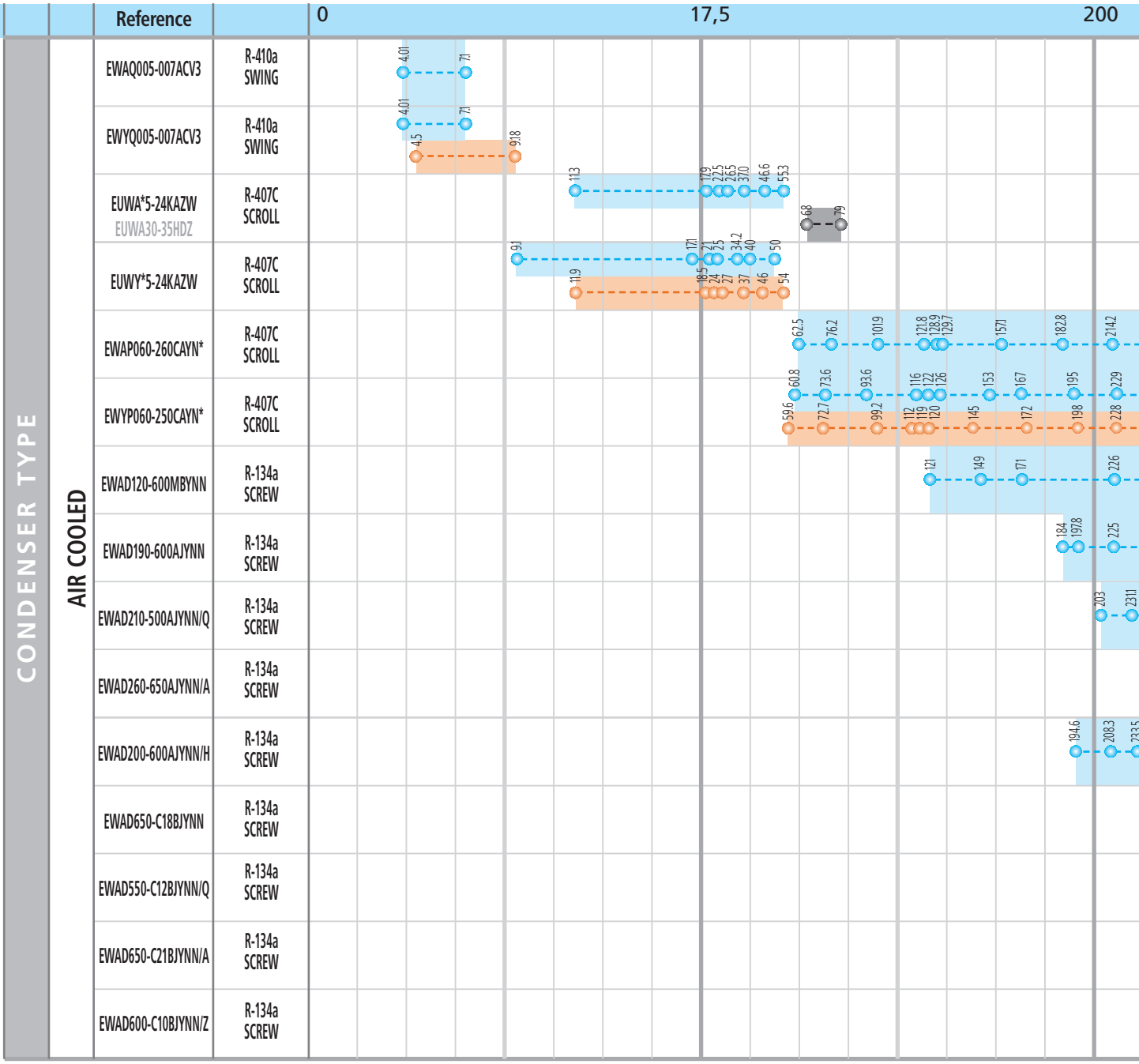
A large range for industry and air conditioning

Product Portfolio



*models N, P, B

APPLIED SYSTEMS

EUWAB8KAZW

EWYP060CAYN

Capacity (kW)

500 1000 2000

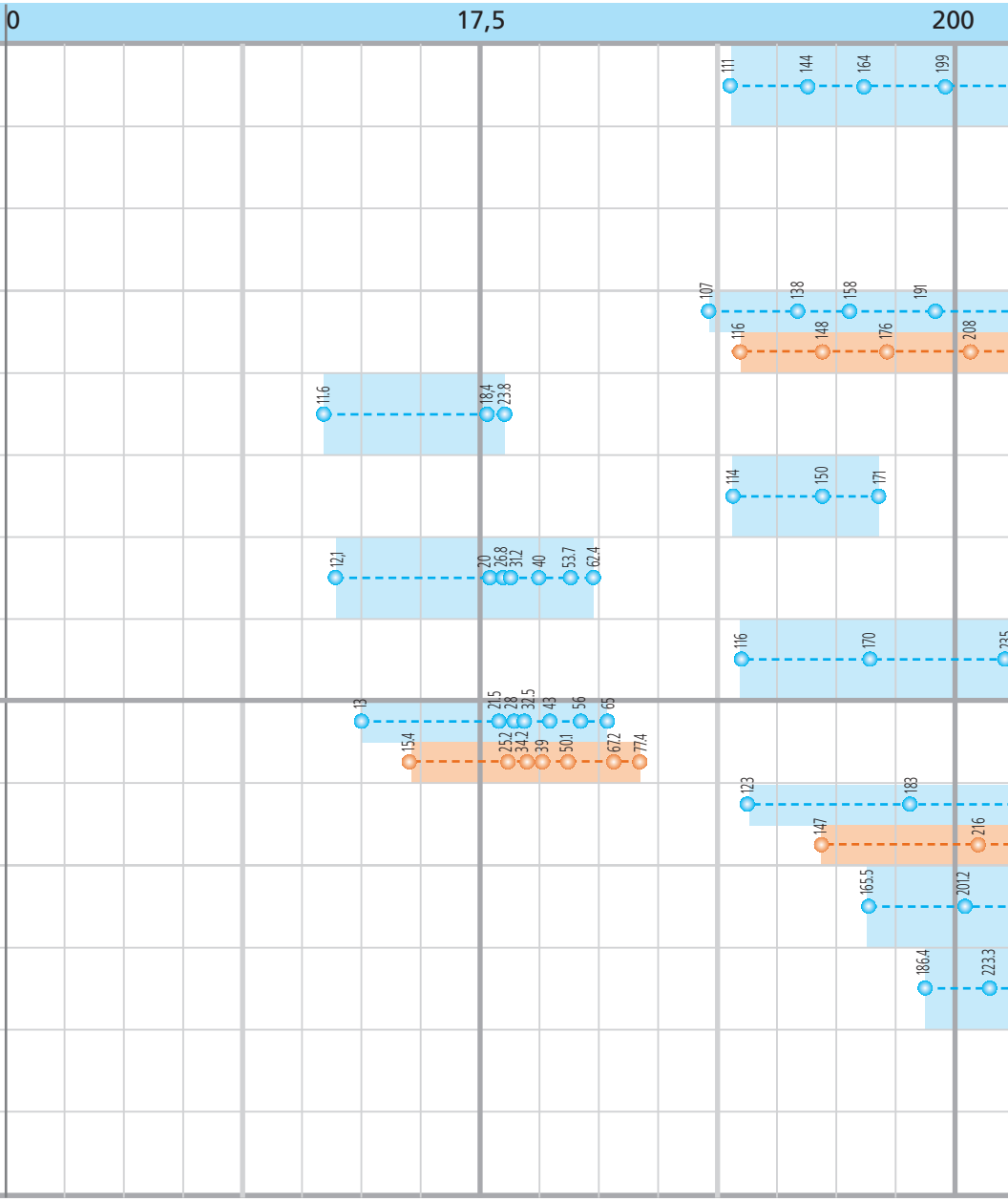
2413 2618
247
247
286 330 372 449 525 605
245 261 275 298.4 321 370 401.3 451 478 510.1 525 600
252.7 270.8 286.1 299.4 308.8 400.5 428.5 447.8 500.8
247 275 301.5 327 351 376 401 501.4 546 582.2 626.6
256.1 273.7 289.3 306.4 335.6 381.2 444.2 477.5 502.1 529.5 540 600.4
640 700 761 817 886 988 1057 1109 1166 1226 1322 1520 1641 1772
538 604 667 725 780 805 893 944 1015 1056 1102 1197
667 723 800 855 903 926 974 1038 1094 1177 1222 1282 1354 1430 1557 1710 1806 1920
569 631 668 840 914 953 1013

Cooling
Heating

A large range for industry and air conditioning

Product Portfolio

CONDENSER TYPE		Reference	
AIR COOLED		EWAP110-540MBYNN	R-407C SCREW
		EWAP800-C18AJYNN	R-407C SCREW
		EWAP850-C18AJYNN/A	R-407C SCREW
		EWTP110-540MBYNN	R-407C SCREW
		EUWAC5-10FZW	R-407C SCROLL
		ERAP110-170MBYNN	R-407C SCREW
		EWLP012-65KAW1N	R-407C SCROLL
		EWLD120-540MBYNN	R-134a SCREW
WATER COOLED		EWWP014-065KAW1N EWWP090-195KAW1	R-407C SCROLL
		EWWD120-540MBYNN	R-134a SCREW
		EWWD170-600DJYNN	R-134a SCREW
		EWWD190-50DJYNN/A	R-134a SCREW
		EWWD340-C19CJYNN	R-134a SCREW
		EWWD380-C11BJYNN	R-134a SCREW

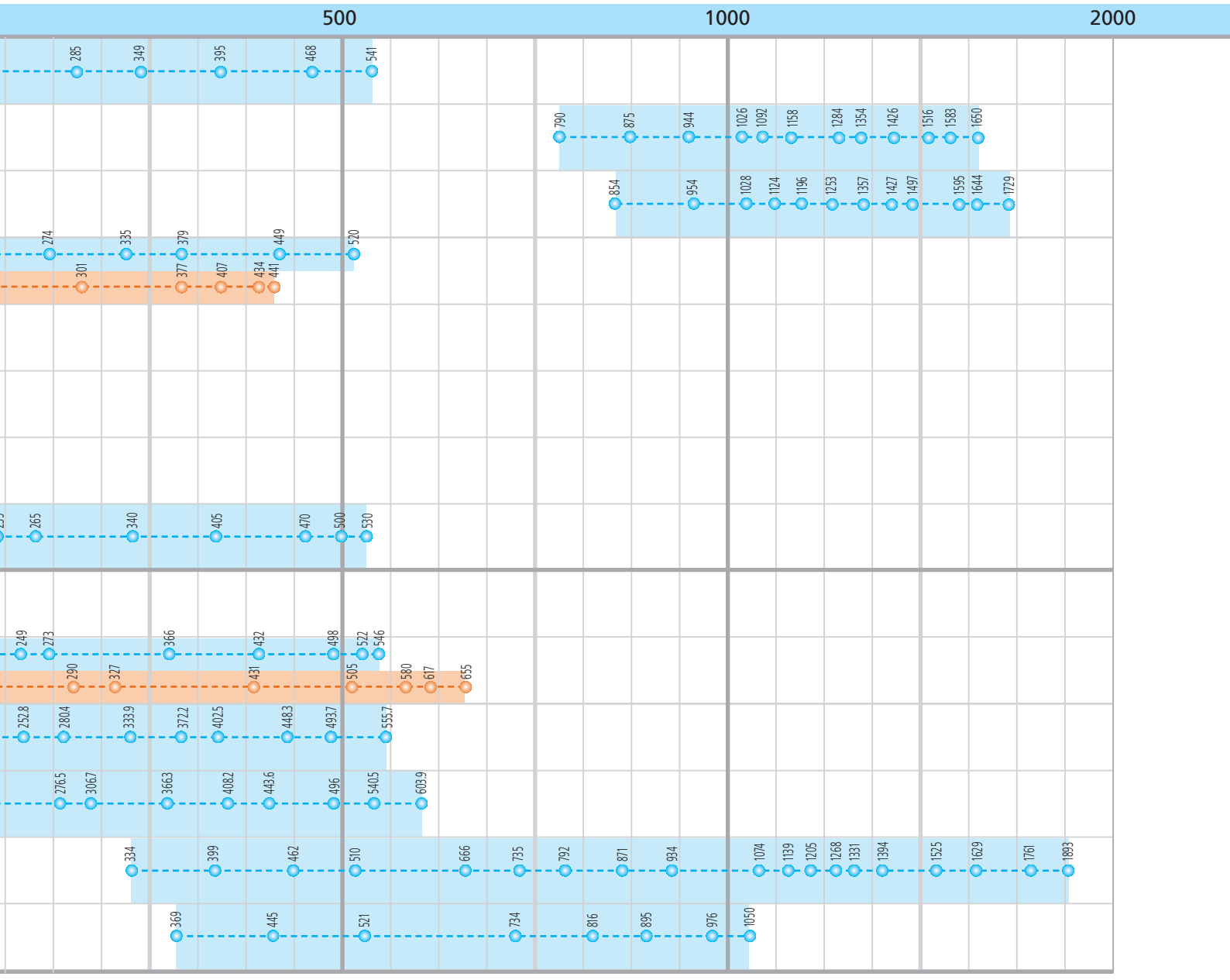


APPLIED SYSTEMS

EWWP090-130KAW1N

EWWD540MBYN
with low noise option

Capacity (kW)



Cooling
Heating

Environmental Awareness

ENHANCING THE PRESENT - SAFEGUARDING THE FUTURE

Throughout the last 50 years or so the basic building blocks of life – air, water and the earth – have been systematically subjected to increasing levels of pollution with little regard to their potentially devastating effects on future generations.

Recently however, concern has grown regarding climate changes, acid rain, water and air pollution and the constant degradation of Earth's natural resources. The very technology that created these problems is now being harnessed to halt and reverse them. Depletion of the ozone layer and global warming have been highlighted and are now being addressed. Government legislation prohibiting the use of toxic substances and the generation of pollutants has slowed down the destruction of the environment.

Daikin Europe is proud to have been pro active in this respect, closely following its Japanese parent in implementing policies that have often pre-empted official legislative codes and directives. As a result, a culture of 'environmental management' has since 2001, played a key role in the company's day to day activities and development strategies.

Top management commitment is reflected in the establishment of a number of action plans, which are now strictly observed and implemented throughout the Daikin Group.

All water chiller design, testing and manufacture is carried out in Daikin's European headquarters plant in Ostend, Belgium. However, certain important components such as compressor/refrigerant combinations are still engineered initially by Daikin Industries in Japan.
Daikin's manufacturing philosophy is characterised by its integrated zero defect policy, whereby production line staff are required to carry out preventive control and testing procedures. The quality of both current and future Daikin equipment is dependent on this effective interaction between all stages of the developing and production cycle.

- Daikin Europe N.V. is participating in the EUROVENT Certification Programme. Products are listed in the EUROVENT Directory of Certified Products.

- Daikin is committed to maintaining the highest standards of product safety and every chiller complies with all CE marking directives (Machine Directive, Low Voltage Directive, Electro Magnetic Compatibility Directive).
  All large Daikin chillers are PED approved.

- The renewal of the Lloyd's Register quality assurance ISO9001 certification reflects Daikin's attitude towards continual improvement and guarantees that close attention is paid to quality at all stages of design, production and after sales in order to meet the customer requirements at all times.

Total Control

- ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.

- All Daikin chillers are factory charged with the correct quantity of oil and refrigerant to ensure easy installation and commissioning

- All Daikin chillers are subjected to a wet running test prior to despatch to ensure their trouble free start up and satisfactory operation in the field.

- Factory visits can be organised for customers on request.

If you have an application that cannot be met by a standard Daikin chiller, please contact your local Daikin dealer who can arrange for a special unit to suit your requirements.

Whatever the requirements of the customer, large systems requiring constant capacity or smaller systems for flexibility, DAIKIN always provides a reliable and efficient solution.

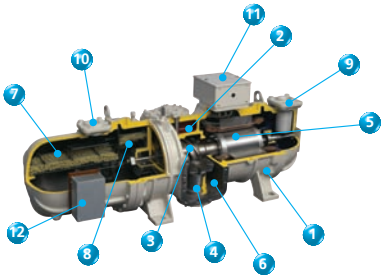
Reliable and Efficient

TWO COMPRESSOR TYPES FOR ALL APPLICATIONS

THE SINGLE SCREW STEPLESS COMPRESSOR - FOR HIGH CAPACITY

The heart of the larger Daikin chillers is a semi hermetic single screw compressor, designed, tested and manufactured in Daikin's own laboratories, in order to meet the highest capacity, performance and maintenance specifications. This compressor has been especially developed for operation with R-134a or R-407C refrigerant, guaranteeing unequalled reliability and many years of efficient operation. The bearing life is 100000hrs with inspection and maintenance intervals every 40000hrs.

Characteristics :



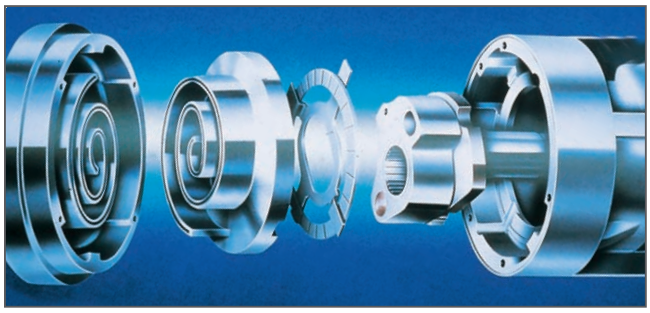
1 Casing
2 Slide valve
3 Screw rotor
4 Bearing
5 Motor
6 Gate rotor
7 2nd stage oil separator
8 Demister (oil separator)
9 Refrigerant suction
10 Refrigerant discharge
11 Compressor terminal + CTP
12 Stepper Motor

- Optimal performance through stepless capacity control in function of the chilled water temperature.
  The unit capacity is infinitely variable from 30 - 100% on single circuit units and 15 - 100% on dual circuit units.
- Compact, simple yet robust construction.
- Using a main single screw and two gate rotors, axial and radial forces are balanced thanks to the symmetrical compression guaranteeing low bearing loads.
- Renowned for its low noise levels the double walled casing design and integrated oil separator, add to the attenuation effect.
- Gate rotors made of polymer material result in closer tolerances with main screw and reduced friction greatly improving compressor efficiency and lifetime.
- No oil pump necessary – lubrication based on differential pressure principle.
- Easy access to both compressor and safety devices
- Star delta starter with low starting current as standard

**THE SCROLL COMPRESSOR,
FOR CONTROLLED CAPACITY**

The smaller Daikin chillers are designed around a Daikin Scroll hermetic compressor.
This compressor has been developed for the refrigerant R-407C to provide constant reliability and high efficiency right throughout its service life.

Characteristics :
- Compact, simple yet robust design.
- Absence of valves and oscillating connecting mechanisms providing maximum reliability.
- Constant compression guaranteeing low energy consumption.
- Increased compression efficiency thanks to the absence of volumetric re-expansion.
- Low sound level.
- Low starting current.



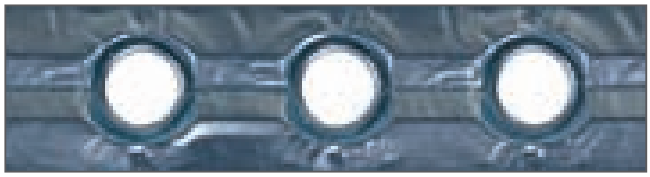
STANDARD ANTI-CORROSION TREATMENT

As standard, condensers for air cooled chillers are given anti-corrosion treatment. This treatment significantly increases resistance to acid rain and saline corrosion. Depending on the capacities and models, treatments are of the following type:

ACRYLIC TREATMENT (Daikin ref PE)
This procedure is used as standard for small air cooled chillers with capacities between 10 and 35kW and all air-coold screw chillers.
The aluminium fins are coated with an acrylic resin and a hydrophilic film.

BLACK EPOXY TREATMENT
Used for chillers from 62 to 267kW, with multiple scroll compressors. The aluminium fins are black epoxy coated.

Example of acrylic treatment



Air-cooled

Air cooled chillers are most frequently used in the chilled water market. Out of its wide range of chillers in cooling only or heat pump version, with or without integrated hydronic components, DAIKIN always offers you a chiller fitting your application needs.

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17	**EWYQ-ACV3**	heat pump
18	**EUWA-KAZW**	cooling only
20	**EUWY-KAZW**	heat pump
22	**EWAP-CAYN**	cooling only
24	**EWYP-CAYN**	heat pump
26	**EWAD-MBYN**	cooling only
28	**EWAD-AJYNN**	cooling only
30	**EWAD-AJYNN/Q**	cooling only
32	**EWAD-AJYNN/A**	cooling only
34	**EWAD-AJYNN/H**	cooling only
36	**EWAD-BJYNN**	cooling only
38	**EWAD-BJYNN/Q**	cooling only
40	**EWAD-BJYNN/A**	cooling only
42	**EWAD-BJYNN/Z**	cooling only
43	**EWAP-MBYN**	cooling only
44	**EWAP-AJYNN**	cooling only
46	**EWAP-AJYNN/A**	cooling only
48	**EWTP-MBYN**	heat recovery
49	**EUWAC-FZW**	cooling only
50	**EHMC-AV**	hydraulic module
51	**EKBT**	buffer tank

HYDROCUBE

TECHNOLOGY SUPPORTING THE ENVIRONMENT

The only manufacturer to develop both the air conditioning equipment and refrigerants, DAIKIN boasts an international reputation in terms of technological innovation.

R-407C

R-410A

Showing respect for the environment, R-407C is an HFC, which is used for air cooled chillers within a capacity range of between 11 and 1729kW. For capacities below 11kW, R-410A refrigerant is used.

Valued for the energy efficiencies that it helps attain, R-134a is a pure HFC. It is used for air cooled chillers within a capacity range of between 121 and 1920kW.

R-134a

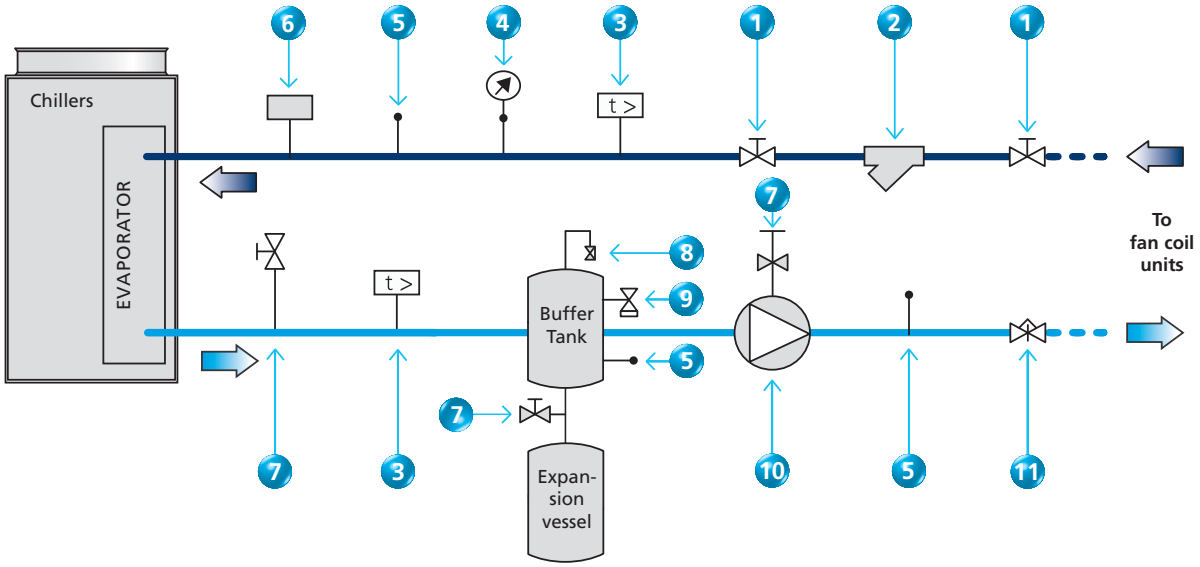
SCROLL COMPRESSORS

Being compact, the DAIKIN Scroll compressor is used with R-407C. Designed for small and medium capacities, the Scroll compressors are used with air cooled chillers within the range of capacities between 11 and 267kW.

SINGLE SCREW STEPLESS COMPRESSORS

Developed and manufactured by DAIKIN, the DAIKIN single screw compressor is appreciated for its reliability. Single screw compressors are used with air cooled chillers within the range of capacities between 100 and 1729KW.

PIPING DIAGRAM FOR COMFORT COOLING APPLICATION



1 Shut-off valve
2 Filter
3 Temperature sensor
4 Pressure gauge (option)
5 Pressure port
6 Flow switch
7 Drain valve
8 Air purge
9 Safety valve
10 Pump
11 Water flow adjusting valve

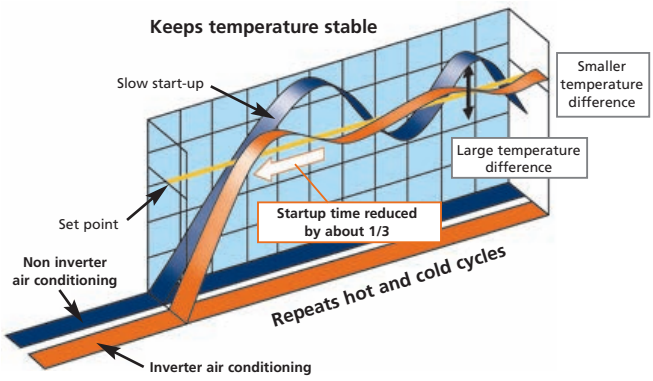
Smart control brings comfort

INVERTER TECHNOLOGY

Inverter technology used in the new mini-chiller allows more precise control of the leaving water condition in function of the load. This leads to energy savings and high comfort levels, ensuring it is never too cool or too hot. This is a major advantage over standard fixed speed models, which use on/off cycling of the compressor, creating greater fluctuations in control conditions.

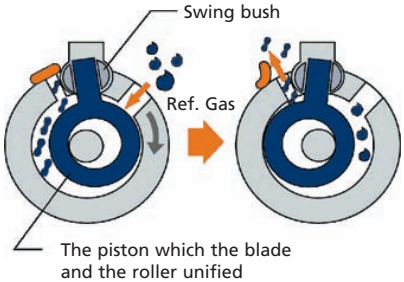
INVERTER TECHNOLOGY OFFERS IMPROVED LEVELS OF COMFORT:

- Continuous matching of load requirement
- Start-up time is reduced by 1/3
- Less frequent start/stop cycles
- Reduced sound pressure levels



SWING COMPRESSOR

The mini-chiller range is equipped with a swing compressor. This innovative design by Daikin with fewer moving parts allows smoother more reliable operation with low vibration and low noise levels. The newly developed high efficiency motor further reduces energy consumption resulting in high energy cost savings.



EWAQ-ACV3
EWYQ-ACV3
Air-cooled

R-410A

INVERTER

STRENGTHS

- Optimised for use with R-410A.
- Inverter controlled swing compressor
  - Precise temperature control
  - No buffer tank required.
- PE treated condenser coil.
- Heating operation from -15°C to 43°C.
- Integrated hydronics
  - valves, filter, flow switch
  - 3 speed pump
  - 6l expansion vessel.
- Adaptive control possibility.

OPTIONS (factory mounted)

- Evaporator heater tape.

CONTROL

- Leaving water control.
- setpoint in heating & cooling.

AVAILABLE INPUTS

- Voltage free contact:
  - ON/OFF.
  - Cooling/Heating changeover.
- Schedule timer:
  - ON/OFF.
  - Dual setpoint.
  - Silent operation.

EWYQ005AC

AIR-COOLED (cooling only)			EWAQ005ACV3	EWAQ006ACV3	EWAQ007ACV3
Nominal capacity (min-nom-max)		kW	4.01 - 5.2 - 5.2	4.01 - 6.0 - 6.0	4.01 - 7.1 - 7.1
Nominal input	cooling	kW	1.89	2.35	2.95
EER			2.75	2.55	2.41
Dimensions	HxWxD	mm	805 x 1,190 x 360		
Machine weight		kg	100		
Sound pressure level		dBA	48	48	50
Sound power level		dBA	62	62	63
Operation range	water side	°CDB		5°C ~ 20°C	
	air side	°CDB		10°C ~ 43°C	
Refrigerant type			R-410A		
Power supply		V3	230V/1~/50Hz		
Minimum water volume		l	12	12	12
Piping connections	water heat exchanger inlet/outlet		1"MBSP		
	water heat exchanger drain		Hose nipple 1/2" FBSP		

AIR-COOLED (heat pump)			EWYQ005ACV3	EWYQ006ACV3	EWYQ007ACV3
Nominal capacity	cooling	kW	4.01 - 5.2 - 5.2	4.01 - 6.0 - 6.0	4.01 - 7.1 - 7.1
	heating (1)	kW	4.5 - 6.1 - 7.27	4.5 - 6.8 - 8.58	4.5 - 8.2 - 9.18
	heating (2)	kW	4.09 - 5.65 - 6.83	4.09 - 6.35 - 8.13	4.09 - 7.75 - 8.73
Nominal input	cooling	kW	1.89	2.35	2.95
	heating (1)	kW	1.60	1.84	2.36
	heating (2)	kW	1.97	2.24	2.83
EER			2.75	2.55	2.41
COP (1)			3.81	3.70	3.47
COP (2)			2.87	2.83	2.74
Dimensions	HxWxD	mm		805 x 1,190 x 360	
Machine weight		kg	100		
Sound pressure level	cooling	dBA	48	48	50
	heating	dBA	48	48	49
Sound power level		dBA	63	64	66
Operation range - water side	cooling	°C	5°C ~ 20°C		
	heating	°C	25°C ~ 50°C		
Operation range - air side	cooling	°CDB	10°C ~ 43°C		
	heating	°CDB	-15°C ~ 25°C		
Refrigerant type			R-410A		
Power supply		V3	230V/1~/50Hz		
Minimum water volume		l	12	12	12
Piping connections	water heat exchanger inlet/outlet		1"MBSP		
	water heat exchanger drain		Hose nipple 1/2" FBSP		

Notes: Measuring conditions: Heating: (1) Water 35°C/40°C - Ambient temperature: 7°C • (2) Water 45°C/50°C - Ambient temperature: 7°C

EUWA*-KAZW

Air-cooled

R-407C

scroll

STRENGTHS

- Integrated hydraulic module (models B and P).
- Built-in buffer tank (model B).
- Daikin scroll compressor.
- Standard main isolator switch.
- Standard water flow switch.
- Standard filter (delivered as a kit with the unit).
- Operation down to -15°C ambient temperature.
- Standard reverse phase protection.
- Standard condenser protection grille.
- Freeze-up protection and prevention.
- PE treated condenser coil.

OPTIONS (factory mounted)

- Chilled water temperature down to - 5°C (OPZH) or -10°C (OPZL).
- High ESP fans (50Pa) (OPHF).
- Pump size up (OPHP).

ACCESSORIES (kit)

- Refrigerant pressure gauges.
- BMS gateway (MODBUS/J-BUS/BACNET protocol).
- Remote user interface.
- 200l buffer tank.
- Soft starter (single circuit).

CONTROL

- Microprocessor control.
- Water inlet temperature control.

AVAILABLE INPUTS / OUTPUTS

Input

- Remote ON/OFF.
- Pump contact.

Output

- Compressor operation.
- Pump relay contact.
- Summary alarm.

AIR-COOLED (cooling only)			EUWA*5KAZW			EUWA*8KAZW			EUWA*10KAZW			EUWA*12KAZW		
			N	P	B	N	P	B	N	P	B	N	P	B
Cooling capacity		kW	11.3			17.9			22.5			26.5		
Power input	cooling	kW	4.52	4.64		7.38	7.39		8.79	8.74		11.5	11.5	
EER			2.51	2.44		2.42	2.42		2.56	2.57		2.30	2.30	
Dimensions	HxWxD	mm	1,230x1,290x734						1,450x1,290x734					
Machine weight		kg	150	168	180	215	229	241	245	259	271	248	262	274
Operation weight		kg	152	171	239	218	232	300	248	262	330	251	265	335
Nominal air flow rate		m^3/min	160			170			170			170		
Fan speed		rpm	2,900			2,900			2,900			2,900		
Sound power level		dBA	67			76			78			78		
Compressor type			Hermetically sealed scroll											
Capacity steps		%	0-100			0-100			0-100			0-100		
Number of compressors			1											
Number of refrigerant circuits			1											
Refrigerant type			R-407C											
Power supply		W1	400V/3N~/50Hz											
Operation range	water side	°CDB	5°C (-10°C as option) ~ 25°C											
	air side	°CDB	-15°C ~ 43°C											
Condenser type			Cross fin coil Hi-X tubes / PE coated waffle louvre fins											
Evaporator type			Brazed plate heat exchanger											
HYDRAULIC														
Water flow rate	min.	l/min	16			26			32			38		
	nominal	l/min	32			51			64			76		
	max.	l/min	65			102			129			152		
Nominal static height	unit	kPa	-	205		-	154		-	123		-	105	
Nominal pressure drop		kPa	24			38			43			37		
Min. water volume in the system		l	54			85			108			126		
Buffer tank volume		l	-		55	-		55	-		55	-		55
Expansion vessel volume		l	-	12		-	12		-	12		-	12	
Piping connections	water inlet/outlet	"	1-1/4			1-1/4			1-1/4			1-1/4		
	water drain	mm	ø15			ø15			ø15			ø15		

Please note that Daikin also offers a 30 and 35hp-unit with cooling capacities of 68 and 79kW. For more information, please contact your local Daikin dealer.

HYDROCUBE

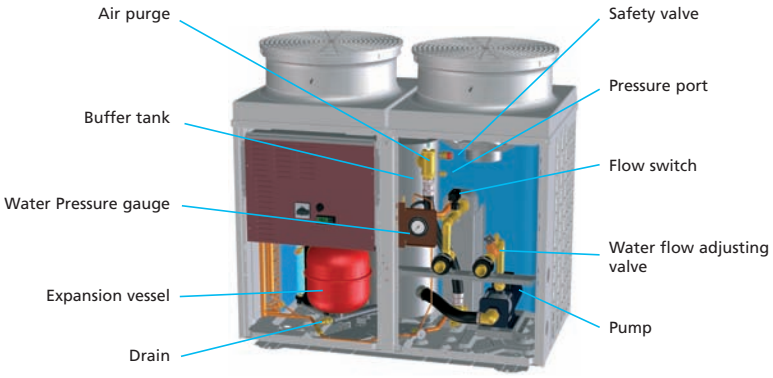
EUWAB12KAZW

EUWAN:
standard equipment
- Scroll compressor
- Main isolator switch
- Water flow switch
- Filter
- Condenser protection grille
- All year operation

EUWAP = EUWAN +
- Pump
- Expansion vessel
- Adjusting valve
- Drain
- Water pressure gauge
- Pressure relief valve

EUWAB = EUWAP +
- Buffer tank

Hydraulic and refrigerant diagram



AIR-COOLED (cooling only)			EUWA*16KAZW			EUWA*20KAZW			EUWA*24KAZW		
			N	P	B	N	P	B	N	P	B
Cooling capacity		kW	37.0			46.6			55.3		
Power input	cooling	kW	15.2	15.0		18.1	17.9		24.0	24.0	
EER			2.42	2.47		2.57	2.60		2.30	2.30	
Dimensions	HxWxD	mm	1,321x2,580x734			1,541x2,580x734					
Machine weight		kg	430	448	460	490	508	520	496	514	526
Operation weight		kg	436	457	525	496	518	586	503	524	592
Nominal air flow rate		m^3/min	2 x 170			2 x 170			2 x 170		
Fan speed		rpm	2,900			2,900			2,900		
Sound power level		dBA	79			81			81		
Compressor type			Hermetically sealed scroll								
Capacity steps		%	0-50-100								
Number of compressors			2								
Number of refrigerant circuits			2								
Refrigerant type			R-407C								
Power supply		W1	400V/3N~/50Hz								
Operation range	water side	°CDB	5°C (-10°C as option) ~ 25°C								
	air side	°CDB	-15°C ~ 43°C								
Condenser type			Cross fin coil Hi-X tubes / PE coated waffle louvre fins								
Evaporator type			Brazed plate heat exchanger								
HYDRAULIC											
Water flow rate	min.	l/min	52			67			79		
	nominal	l/min	106			134			158		
	max.	l/min	212			267			317		
Nominal static height	unit	kPa	-	187		-	137		-	100	
Nominal pressure drop		kPa	22			22			22		
Min. water volume in the system		l	88			111			132		
Buffer tank volume		l	-		55	-		55	-		55
Expansion vessel volume		l	-	12		-	12		-	12	
Piping connections	water inlet/outlet	"	2			2			2		
	water drain	mm	ø15			ø15			ø15		

EUWA*-KAZW

Air-cooled

R-407C

scroll

STRENGTHS

- Integrated hydraulic module (models B and P).
- Built-in buffer tank (model B).
- Daikin scroll compressor.
- Standard main isolator switch.
- Standard water flow switch.
- Standard filter (delivered as a kit with the unit).
- Operation down to -15°C ambient temperature.
- Standard reverse phase protection.
- Standard condenser protection grille.
- Freeze-up protection and prevention.
- PE treated condenser coil.

OPTIONS (factory mounted)

- Chilled water temperature down to - 5°C (OPZH) or -10°C (OPZL).
- High ESP fans (50Pa) (OPHF).
- Pump size up (OPHP).

ACCESSORIES (kit)

- Refrigerant pressure gauges.
- BMS gateway (MODBUS/J-BUS/BACNET protocol).
- Remote user interface.
- 200l buffer tank.
- Soft starter (single circuit).

CONTROL

- microprocessor control.
- Water inlet temperature control.

AVAILABLE INPUTS / OUTPUTS

Input

- Remote ON/OFF.
- Pump contact.
- Remote cool/heat selection.

Output

- Compressor operation.
- Summary alarm.
- Pump relay contact.

AIR-COOLED (heat pump)			EUWY*5KAZW			EUWY*8KAZW			EUWY*10KAZW			EUWY*12KAZW		
			N	P	B	N	P	B	N	P	B	N	P	B
Nominal capacity	cooling	kW	9.1			17.1			21.0			25.0		
	heating	kW	11.9			18.5			24.0			27.0		
Power input	cooling	kW	3.78	3.78		7.45	7.46		8.57	8.57		11.4	11.4	
	heating	kW	4.59	4.59		7.10	7.10		9.10	9.10		10.8	10.8	10.8
EER			2.40	2.40		2.30	2.30		2.45	2.45		2.20	2.20	2.20
COP			2.60	2.60		2.60	2.60		2.64	2.64		2.50	2.50	2.50
Dimensions	HxWxD	mm	1,230x1,290x734						1,450x1,290x734					
Machine weight		kg	163	181	193	227	241	253	258	272	284	258	272	284
Operation weight		kg	165	184	252	230	244	312	261	275	343	261	275	343
Nominal air flow rate		m^3/min	160			170			170			170		
Fan speed		rpm	2,900			2,900			2,900			2,900		
Sound power level		dBA	67			76			78			78		
Compressor type			Hermetically sealed scroll											
Capacity steps		%	0-100			0-100			0-100			0-100		
Number of compressors			1											
Number of refrigerant circuits			1											
Refrigerant type			R-407C											
Power supply		W1	400V/3N~/50Hz											
Operation range - water side	cooling	°CDB	5°C (-10°C as option) ~ 25°C											
	heating	°CDB	35°C ~ 50°C											
Operation range - air side	cooling	°CDB	-15°C ~ 43°C											
	heating	°CDB	-10°C ~ 21°C											
Condenser type			Cross fin coil Hi-X tubes / PE coated waffle louvre fins											
Evaporator type			Brazed plate heat exchanger											
HYDRAULIC														
Water flow rate	min.	l/min	21			31			38			45		
	nominal - cooling	l/min	26			49			60			72		
	nominal - heating	l/min	34			53			69			77		
	max.	l/min	68			106			137			155		
Nominal static height unit	cooling	kPa	-	223		-	171		-	151		-	118	
	heating	kPa	-	205		-	160		-	127		-	100	
Nominal pressure drop	cooling	kPa	10			25			24			33		
	heating	kPa	17			29			31			38		
Min. water volume in the system		l	43			82			100			119		
Buffer tank volume		l	-		55	-		55	-		55	-		55
Expansion vessel volume		l	-	12		-	12		-	12		-	12	
Piping connections	water inlet/outlet	"	1-1/4			1-1/4			1-1/4			1-1/4		
	water drain	mm	ø 15			ø 15			ø 15			ø 15		

EUWYB12KAZW

EUWY**N**:
standard equipment
- Scroll compressor
- Main isolator switch
- Water flow switch
- Filter
- Condenser protection grille.
- All year operation

EUWY**P** = EUWY**N** +
- Pump
- Expansion vessel
- Adjusting valve
- Drain
- Water pressure gauge
- Pressure relief valve.

EUWY**B** = EUWY**P** +
- Buffer tank

HYDROCUBE

AIR-COOLED (heat pump)			EUWY*16KAZW			EUWY*20KAZW			EUWY*24KAZW		
			N	P	B	N	P	B	N	P	B
Nominal capacity	cooling	kW	34.2			40.0			50.0		
	heating	kW	37.0			46.0			54.0		
Power input	cooling	kW	14.9	14.9		16.3	16.3		22.8	22.8	
	heating	kW	14.2	14.2		17.4	17.4		21.6	21.6	
EER			2.30	2.30		2.45	2.45		2.20	2.20	
COP			2.61	2.61		2.64	2.64		2.50	2.50	
Dimensions	HxWxD	mm	1,321x2,580x734			1,541x2,580x734					
Machine weight		kg	455	473	485	516	534	546	516	534	546
Operation weight		kg	461	482	550	522	544	612	522	544	612
Nominal air flow rate		m^3/min	2 x 170			2 x 170			2 x 170		
Fan speed		rpm	2,900			2,900			2,900		
Sound power level		dBA	79			81			81		
Compressor type			Hermetically sealed scroll								
Capacity steps		%	0-50-100								
Number of compressors			2								
Number of refrigerant circuits			2								
Refrigerant type			R-407C								
Power supply		W1	400V/3N~/50Hz								
Operation range	water side	°CDB	5°C (-10°C as option) ~ 25°C								
	air side	°CDB	-15°C ~ 43°C								
Condenser type			Cross fin coil Hi-X tubes / PE coated waffle louvre fins								
Evaporator type			Brazed plate heat exchanger								
HYDRAULIC											
Water flow rate	min.	l/min	61			72			89		
	nominal - cooling	l/min	98			115			143		
	nominal - heating	l/min	106			132			155		
	max.	l/min	212			263			309		
Nominal static height unit	cooling	kPa	-	209		-	183		-	146	
	heating	kPa	-	195		-	147		-	111	
Nominal pressure drop	cooling	kPa	12			12			19		
	heating	kPa	14			16			22		
Min. water volume in the system		l	82			96			119		
Buffer tank volume		l	-		55	-		55	-		55
Expansion vessel volume		l	-	12		-	12		-	12	
Piping connections	water inlet/outlet	"	2			2			2		
	drain	mm	ø 15			ø 15			ø 15		

EWAP-CAYN

Air-cooled

R-407C

scroll

STRENGTHS

- Integrated hydraulic module.
- Standard main isolator switch.
- Standard water flow switch.
- Filter.
- Operation down to -10°C ambient temperature (-18°C with option inverter fans (OPIF)).
- Standard reverse phase protection.
- Freeze-up protection and prevention.
- Black epoxy treated condenser coil.

OPTIONS (factory mounted)

- Hydraulic module with single pump.
- Hydraulic module with double pump.
- Buffer tank up to 570l.
- Low noise (-3 to -7dB(A)).
- Double pump.
- Single / Double pump contactors.
- High ESP fans (60 to 80Pa).
- Ultra-low operation. outdoor temperature (-18°C).
- LON communication card.
- Pressure gauges.
- Condenser protection grilles.
- Chilled water temperature down to -4°C (OPZH) or -12°C (OPZL).

CONTROL

- Microprocessor control.
- Water outlet temperature control.
- Weekly operating schedule.
- Water inlet temperature control.

AVAILABLE INPUTS / OUTPUTS

Input

- ON / OFF (per circuit).
- Dual setpoint.
- Floating setpoint (analog input 0 - 10V).

Output

- Compressor operation.
- Summary alarm (per circuit).
- Pump relay contact.

AIR-COOLED (cooling only)			EWAP060CAYN*	EWAP080CAYN*	EWAP100CAYN*	EWAP120CAYN*	EWAP125CAYN*	EWAP130CAYN*
Cooling capacity		kW	62.5	76.2	101.9	121.8	129.7	128.9
Power input	cooling	kW	24.4	28.8	36.4	43.6	50.5	49.1
EER			2.56	2.65	2.80	2.79	2.57	2.63
Dimensions	HxWxD	mm	1,897x2,800x1,100	1,897x3,200x1,100	2,092x3,200x1,100			1,897x3,400x2,300
Operation weight		kg	842	968	1,143	1,267	1,292	1,623
Nominal air flow rate		m^3/h	19,100	26,300	37,300	37,100	37,100	38,300
Fan speed		rpm	700	700	680	680	680	700
Sound power level (standard/low noise)		dBA	85/80	86/81	86/85	90/88	91/88	88/83
Compressor type			Hermetic scroll compressor					
Capacity steps			40-60	50	37-63	44-56	50	20-30
Number of compressors			2	2	3	2	2	4
Number of refrigerant circuits			1					2
Refrigerant type			R-407C					
Power supply		YN	400V/3~50Hz					
Operation range	water side	°C	-12°C ~ +12°C					
	air side	°C	-10°C (-18°C with option inverter fans) ~ 42°C					
Condenser type			Slit fin					
Evaporator type			Brazed plate heat exchanger					
HYDRAULIC								
Nominal water flow rate		l/min	178.8	217.8	295.2	333	369	368.4
Nominal static height - single pump		kPa	180	174	139	201	186	207
Nominal static height - double pump		kPa	166	158	121	187	171	191
Nominal pressure drop		kPa	33	38	46	43	44	30
Min. Water volume in the system		l	360	360	610	640	620	370
Buffer tank	volume	l	370	410	410	410	410	570
	weight	kg	396	437	437	437	437	644
	height	mm	400					
Piping connections	evaporator in/outlet		2	2,5	2,5	2,5	2,5	2,5
	evaporator water drain		Hose tube 15x21					

* models N, P, B

HYDROCUBE

EWAP060CAYNN

POSSIBLE CONFIGURATIONS

- **Standard unit (N)**
- **Unit with hydraulic module (P)**
  - Pump (single or double)
  - Expansion vessel
  - Adjusting valve
  - Drain
  - Water pressure gauge
  - Pressure relief valve
  - Filter
- **Unit with hydraulic module & buffer tank (B)**

AIR-COOLED (cooling only)			EWAP160CAYN*	EWAP180CAYN*	EWAP210CAYN*	EWAP240CAYN*	EWAP260CAYN*
Cooling capacity		kW	157.1	182.8	214.2	241.3	261.8
Power input	cooling	kW	57.9	68.4	77.9	88.3	102.4
EER			2.71	2.67	2.75	2.73	2.56
Dimensions	HxWxD	mm	2,100x3,400x2,300				
Operation weight		kg	1,818	2,087	2,245	2,423	2,456
Nominal air flow rate		m^3/h	52,700	55,400	86,300	83,000	79,300
Fan speed		rpm	700	700	680	680	680
Sound power level (standard/low noise)		dBA	89/84	89/85	95/89	95/89	95/91
Compressor type			Hermetic scroll compressor				
Capacity steps			25	22-29	19-32	17-33	25
Number of compressors			4	6	6	6	4
Number of refrigerant circuits			2				
Refrigerant type			R-407C				
Power supply		YN	400V/3~50Hz				
Operation range	water side	°C	-12°C ~ +12°C				
	air side	°C	-10°C (-18°C with option inverter fans) ~ 42°C				
Condenser type			Slit fin				
Evaporator type			Brazed plate heat exchanger				
HYDRAULIC							
Nominal water flow rate		l/min	449.4	522.6	615	693	764.4
Nominal static height - single pump		kPa	186	197	174	137	125
Nominal static height - double pump		kPa	168	176	148	137	124
Nominal pressure drop		kPa	36	30	35	38	41
Min. Water volume in the system		l	370	500	650	760	630
Buffer tank	volume	l	570	570	570	570	570
	weight	kg	644	644	644	644	644
	height	mm	400				
Piping connections	evaporator in/outlet		2,5	3	3	3	3
	evaporator water drain		Hose tube 15x21				

* models N, P, B

EWYP-CAYN

Air-cooled

R-407C

scroll

STRENGTHS

- Integrated hydraulic module.
- Built-in buffer tank.
- Standard main isolator switch.
- Standard water flow switch.
- Filter.
- Operation down to -10°C ambient temperature.
- Standard reverse phase protection.
- Freeze-up protection and prevention.
- Black epoxy treated condenser coil.

OPTIONS (factory mounted)

- Hydraulic module with single pump.
- Hydraulic module with double pump.
- Buffer tank up to 570l.
- Low noise (-3 to -7dB(A)).
- Double pump.
- Single / Double pump contactors.
- High ESP fans (60 to 80Pa).
- LON communication card.
- Pressure gauges.
- Condenser protection grilles.
- Chilled water temperature down to -4°C (OPZH) or -12°C (OPZL).

CONTROL

- Microprocessor control.
- Water output temperature control.
- Weekly operating schedule.

AVAILABLE INPUTS / OUTPUTS

Input

- ON / OFF (per circuit).
- Dual setpoint.
- Heat/Cool Switch.
- Floating setpoint. (analog input 0 - 10V).

Output

- Compressor operation.
- Summary alarm (per circuit).
- Pump relay contact.

AIR-COOLED (heat pump)			EWYP060CAYN*	EWYP075CAYN*	EWYP095CAYN*	EWYP110CAYN*	EWYP120CAYN*	EWYP130CAYN*
Nominal capacity	cooling	kW	60.8	73.6	93.6	116	122	126
	heating	kW	59.6	72.7	99.2	112	120	119
Nominal input	cooling	kW	25.4	30.1	37.6	42.8	49.7	51.1
	heating	kW	24.9	30.4	43	45.7	48.6	49.5
EER			2.39	2.45	2.49	2.71	2.45	2.47
COP			2.39	2.39	2.31	2.45	2.47	2.40
Dimensions	HxWxD	mm	1,897x2,800x1,100	1,897x3,200x1,100	2,092x3,200x1,100			1,897x3,400x2,300
Operation weight		kg	870	996	1,182	1,302	1,331	1,677
Nominal air flow rate		m^3/h	19,100	26,300	37,300	37,100	37,100	38,300
Fan speed		rpm	700	700	680	680	680	700
Sound power level (standard/low noise)		dBA	85/80	86/81	86/85	90/88	91/88	88/83
Compressor type			Hermetic scroll compressor					
Capacity steps			40-60	50	37-63	44-56	50	20-30
Number of compressors			2	2	3	2	2	4
Number of refrigerant circuits			1					2
Refrigerant type			R-407C					
Power supply		YN	400V/3~50Hz					
Operation range - water side	cooling	°C	-12°C ~ +12°C					
	heating	°C	25°C ~ 50°C					
Operation range - air side	cooling	°C	-10°C ~ 42°C					
	heating	°C	-10°C ~ +20°C					
Condenser type			Aluminium fins with black epoxy coating					
Evaporator type			Brazed plate heat exchanger					
HYDRAULIC								
Nominal water flow rate		l/min	178.8	217.8	295.2	333	369	3682
Nominal static height - single pump	cooling	kPa	180	174	139	201	186	207
	heating	kPa	180	174	139	201	186	207
Nominal static height - double pump	cooling	kPa	166	158	121	187	171	191
	heating	kPa	166	158	121	187	171	191
Nominal pressure drop	cooling	kPa	31	35	39	40	39	28
	heating	kPa	31	35	39	40	39	28
Min. Water volume in the system		l	360	360	610	640	620	370
Buffer tank	volume	l	370	410	410	410	410	570
	weight	kg	396	437	437	437	437	644
	height	mm	400					
Piping connections	evaporator in/outlet		2	2,5	2,5	2,5	2,5	2,5
	evaporator water drain		Hose tube 15x21					

* models N, P, B

HYDROCUBE

EWYP060CAYNN

POSSIBLE CONFIGURATIONS

- **Standard unit (N)**
- **Unit with hydraulic module (P)**
  - Pump (single or double)
  - Expansion vessel
  - Adjusting valve
  - Drain
  - Water pressure gauge
  - Pressure relief valve
  - Filter
- **Unit with hydraulic module & buffer tank (B)**

AIR-COOLED (heat pump)			EWYP150CAYN*	EWYP170CAYN*	EWYP200CAYN*	EWYP220CAYN*	EWYP250CAYN*
Nominal capacity	cooling	kW	153	167	195	229	247
	heating	kW	145	172	198	228	247
Nominal input	cooling	kW	60.7	69.8	78.2	91.6	102
	heating	kW	60.4	69.6	84.5	86.5	101
EER			2.52	2.39	2.49	2.50	2.42
COP			2.40	2.47	2.34	2.64	2.45
Dimensions	HxWxD	mm	2,100x3,400x2,300				
Operation weight		kg	1,872	2,166	2,324	2,502	2,535
Nominal air flow rate		m^3/h	52,700	55,400	86,300	83,000	79,300
Fan speed		rpm	700	700	680	680	680
Sound power level (standard/low noise)		dBA	89/84	89/85	95/89	95/89	95/91
Compressor type			Hermetic scroll compressor				
Capacity steps			25	22-29	19-32	17-33	25
Number of compressors			4	6	6	6	4
Number of refrigerant circuits			2				
Refrigerant type			R-407C				
Power supply		YN	400V/3~50Hz				
Operation range - water side	cooling	°C	-12°C ~ +12°C				
	heating	°C	25°C ~ 50°C				
Operation range - air side	cooling	°C	-10°C ~ 42°C				
	heating	°C	-10°C ~ +20°C				
Condenser type			Aluminium fins with black epoxy coating				
Evaporator type			Brazed plate heat exchanger				
HYDRAULIC							
Nominal water flow rate		l/min	449.4	522.6	615	693	764.4
Nominal static height - single pump	cooling	kPa	186	197	174	133	125
	heating	kPa	186	197	174	133	125
Nominal static height - double pump	cooling	kPa	168	176	148	134	124
	heating	kPa	168	176	148	134	124
Nominal pressure drop	cooling	kPa	35	25	29	32	36
	heating	kPa	35	25	29	32	36
Min. Water volume in the system		l	370	500	650	760	630
Buffer tank	volume	l	570	570	570	570	570
	weight	kg	644	644	644	644	644
	height	mm	400				
Piping connections	evaporator in/outlet		2,5	3	3	3	3
	evaporator water drain		Hose tube 15x21				

* models N, P, B

EWAD-MBYNN

Air-cooled

R-134a

screw

STRENGTHS

- DAIKIN stepless single screw compressor.
- Operation down to -15°C ambient temperature.
- Standard reverse phase protection.
- Freeze-up protection and prevention.
- PE treated condenser coil.
- VICTAULIC joints.
- Standard discharge shut-off valve.
- DICN operation as standard within same series.
- Flow switch.
- Modular design.
- High energy efficiency ratio.

OPTIONS (factory mounted)

- Main isolator switch.
- Condenser protection grilles.
- Low noise (-5 to -7dB(A)).
- Compressor suction stop valve.
- Ampere & Voltmeter (read-out on switchbox).
- Chilled water temperature down to - 5°C (ZH) or -10°C (ZL).
- Hi-ESP fans.
- Dual pressure relief valve.

ACCESSORIES (kit)

- Leaving water control sensor for DICN.
- BMS gateway. (MODBUS/J-BUS/BACNET protocol).
- Remote user interface (EKRUPC).

CONTROL

- Microprocessor control.
- Water inlet or outlet temperature control.
- Leaving water control sensor for DICN.

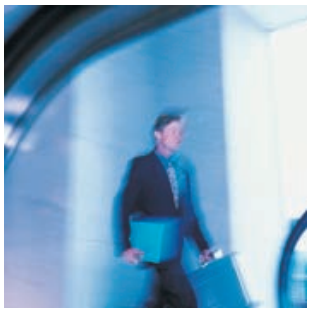
AVAILABLE INPUTS / OUTPUTS

Input
- ON / OFF (per circuit).
- Dual setpoint.
- Pump / flow switch.

Output
- Compressor operation.
- Summary alarm (per circuit).
- Pump relay contact.

AIR COOLED (cooling only)			EWAD120MBYNN	EWAD150MBYNN	EWAD170MBYNN	EWAD240MBYNN	EWAD300MBYNN
Cooling capacity		kW	121	149	171	226	286
Power input	cooling	kW	41.1	54.1	64.9	83.7	105
Dimensions	HxWxD	mm	2,221x3,973x1,109	2,221x3,973x1,109	2,221x3,973x1,109	2,250x4,280x2,238	2,250x4,280x2,238
Machine weight		kg	1,391	1,600	1,705	2,710	3,210
Operation weight		kg	1,441	1,663	1,768	2,790	3,340
Nominal air flow rate		m^3/min	960	960	960	1,920	1,920
Fan speed		rpm	730	900	900	730	900
Sound power level		dBA	87	94	92	90	97
Compressor type			Semi-hermetic single screw compressor				
Capacity steps		%	30-100	30-100	30-100	15-100	15-100
Number of compressors			1	1	1	2	2
Number of refrigerant circuits			1	1	1	2	2
Refrigerant type			R-134a				
Power supply		YN	400V/3~/50Hz				
Operation range	air side	°CDB	-15°C~43°C				
	water side	°CDB	4°C(-10°C as option)~26°C				
Condesor type			Cross fin coil/Hi-X tubes and PE coated waffle louvre fins				
Evaporator type			Shell and tube				
Water flow rate	min	l/min	150	200	200	300	395
	max	l/min	490	725	725	930	1,165
Nominal water pressure drop		kPa	31.7	18.6	24.8	41	36.6
Minimum water volume in the system		l	590	730	840	550	700
Piping connections	evaporator inlet/outlet		3" victaulic coupling	4" victaulic coupling	4" victaulic coupling	4" victaulic coupling	5" victaulic coupling
	evaporator water drain		1/2" G-F UNI-ISO 228/1				

EWAD170MBYNN



AIR COOLED (cooling only)			EWAD340MBYNN	EWAD380MBYNN	EWAD460MBYNN	EWAD520MBYNN	EWAD600MBYNN
Cooling capacity		kW	330	372	449	525	605
Power input	cooling	kW	136	130	170	210	263
Dimensions	HxWxD	mm	2,250x4,280x2,238	2,250x5,901x2,238	2,250x5,901x2,238	2,250x5,901x2,238	2,250x5,901x2,238
Machine weight		kg	3,260	5,335	5,595	5,775	5,855
Operation weight		kg	3,390	5,497	5,779	5,959	6,039
Nominal air flow rate		m^3/min	1,920	2,880	2,880	2,880	2,880
Fan speed		rpm	900	900	900	900	900
Sound power level		dBA	95	97	98	100	101
Compressor type			Semi-hermetic single screw compressor				
Capacity steps		%	15-100	15-100	15-100	15-100	15-100
Number of compressors			2	2	2	2	2
Number of refrigerant circuits			2	2	2	2	2
Refrigerant type			R-134a				
Power supply		YN	400V/3~/50Hz				
Operation range	air side	°CDB	-15°C~43°C				
	water side	°CDB	4°C(-10°C as option)~26°C				
Condesor type			Cross fin coil/Hi-X tubes and PE coated waffle louvre fins				
Evaporator type			Shell and tube				
Water flow rate	min	l/min	395	540	640	640	870
	max	l/min	1,165	1,580	1,880	1,880	1,880
Nominal water pressure drop		kPa	49.1	20.8	25.6	35.1	46.6
Minimum water volume in the system		l	910	1,100	1,280	1,480	
Piping connections	evaporator inlet/outlet		5" victaulic coupling	6" victaulic coupling	6" victaulic coupling	6" victaulic coupling	6" victaulic coupling
	evaporator water drain		1/2" G-F UNI-ISO 228/1				

NEW

EWAD-AJYNN

Air-cooled

R-134a

screw

STRENGTHS
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 184–600kW
- Eurovent class A: EER up to 2,84
- 2 truly independent refrigerant circuits
- DX shell and tube evaporator – one pass
- Refrigerant side to minimize pressure drops
- Several operating sound levels down to 93dB

STANDARD AVAILABLE
- Glycol application
- Evaporator heater
- Suction stop valve
- Main switch

OPTIONS (factory mounted)
- Single pump
- Twin pump
- High ESP pump
- High ESP twin pump
- Total heat recovery
- Partial heat recovery
- Reduced noise (440-480-500-550-600) / Low noise
- Fan silent
- Low ambient
- Power factor 0.9
- Gauges
- Coil guards
- Soft starter (400-440-480-500-550-600)
- Blank CU/al coils
- Electronic expansion valve

ACCESSORIES
- Communication cards (EKAC200J – EKACBAC - EKACLON)
- Remote user interface (EKRUPCJ)
- Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- Sequencing panel (EKCSCII)
- Plant visor (EKPV2J)
- Modem (EKMODEM – EKGSMOD)
- Converter RS485 to RS 232 (EKCON)

AIR COOLED (cooling only)			EWAD190AJYNN	EWAD200AJYNN	EWAD230AJYNN	EWAD260AJYNN	EWAD280AJYNN	EWAD300AJYNN	EWAD320AJYNN	EWAD340AJYNN
Cooling capacity		kW	184.0	197.8	225.0	245.0	261.0	275.0	298.4	321.0
Power input	cooling	kW	81.3	79.6	84.6	93.5	101.3	108.3	119.4	123.4
EER			2.26	2.48	2.66	2.62	2.58	2.54	2.50	2.60
Dimensions	HxWxD	mm	2,340x2,235x2,240	2,340x2,235x2,240	2,340x2,235x3,140	2,340x2,235x3,140	2,340x2,235x3,140	2,340x2,235x3,140	2,340x2,235x3,140	2,340x2,235x4,040
Machine weight		kg	2,380	2,466	2,766	2,766	2,806	2,846	2,846	3,166
Operating weight		kg	2,405	2,497	2,859	2,859	2,896	2,936	2,936	3,279
Nominal air flow rate		m^3/min	918	894	1,374	1,374	1,356	1,338	1,338	1,836
Fan speed		rpm	900							
Sound power level		dBA	93.7	93.7	94.3	94.3	94.3	94.3	94.3	94.7
Compressor type			Semi-hermetic single screw compressor							
Capacity steps		%	12.5 - 100							
Number of refrigerant circuits			2							
Refrigerant type			R-134a							
Power supply		YN	400V/3~/50Hz							
Evaporator type			Plate to plate heat exchanger		Shell and tube	Shell and tube	Shell and tube	Shell and tube	Shell and tube	Shell and tube
Water flow rate	min	l/min	311	374	327	333	361	368	368	503
	max	l/min	985	1,182	1,033	1,053	1,141	1,162	1,164	1,590
Nominal water pressure drop		kPa	28.7	23	39	44.5	43	46	54	33.5
Min water volume in the system		l	31	93	93	90	90	90	113	113
Piping connections	evaporator water inlet/outlet		3"	3"	4"	4"	4"	4"	4"	4"

EWAD-AJYNN

AIR COOLED (cooling only)			EWAD360AJYNN	EWAD400AJYNN	EWAD440AJYNN	EWAD480AJYNN	EWAD500AJYNN	EWAD550AJYNN	EWAD600AJYNN
Cooling capacity		kW	370.0	401.3	451.0	478.7	510.1	525.0	600.0
Power input	cooling	kW	133.4	155.7	167.0	177.6	186.9	188.0	211.2
EER			2.77	2.58	2.70	2.69	2.73	2.78	2.84
Dimensions	HxWxD	mm	2,340x2,235x4,040	2,340x2,235x3,140	2,340x22,35x4,040	2,340x2,235x4,040	2,340x2,235x4,040	2,340x2,235x4,040	2,340x2,235x4,040
Machine weight		kg	3,186	3,552	3,932	3,997	4,052	4,092	4,122
Operating weight		kg	3,299	3,680	4,102	4,161	4,216	4,252	4,282
Nominal air flow rate		m^3/min	1,836	1,938	2,694	2,640	2,580	2,580	2,580
Fan speed		rpm	900	890	890	890	890	890	890
Sound power level		dBA	97.2	95.8	96.7	96.7	96.7	98.2	98.7
Compressor type			Semi-hermetic single screw compressor						
Capacity steps		%	12.5 - 100						
Number of refrigerant circuits			2						
Refrigerant type			R-134a						
Power supply		YN	400V/3~/50Hz						
Evaporator type			Shell and tube	*	*	*	*	*	*
Water flow rate	min	l/min	512	*	*	*	*	*	*
	max	l/min	1,618	*	*	*	*	*	*
Nominal water pressure drop		kPa	43	*	*	*	*	*	*
Min water volume in the system		l	25	128	170	164	164	160	160
Piping connections	evaporator water inlet/outlet		4"	*	*	*	*	*	*

* Information was not available at time of publication

NEW

EWAD-AJYNN/Q

Air-cooled

Extra Low Noise

R-134a

screw

STRENGTHS
- Standard efficiency extra low noise
- Several operating sound levels down to 84dB
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 203–500,8kW
- Eurovent class A: EER up to 2,7
- 2 truly independent refrigerant circuits
- DX shell and tube evaporator – one pass
- Refrigerant side to minimize pressure drops

STANDARD AVAILABLE
- Glycol application
- Evaporator heater
- Suction stop valve
- Main switch

OPTIONS (factory mounted)
- Total heat recovery
- Partial heat recovery
- Fan silent
- Power factor 0.9
- Gauges
- Coil guards
- Soft starter (400-440-460-500)
- Blank cu/al coils
- Electronic expansion valve

ACCESSORIES
- Communication cards (EKAC200J – EKACBAC - EKACLON)
- Remote user interface (EKRUPCJ)
- Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- Sequencing panel (EKCSCII)
- Plant visor (EKPV2J)
- Modem (EKMODEM – EKGSMOD)
- Converter RS485 to RS 232 (EKCON)

AIR COOLED (cooling only)			EWAD210AJYNN/Q	EWAD240AJYNN/Q	EWAD260AJYNN/Q	EWAD280AJYNN/Q	EWAD300AJYNN/Q	EWAD320AJYNN/Q
Cooling capacity		kW	203.0	231.1	252.7	270.8	286.1	299.4
Power input	cooling	kW	79.8	85.2	93.7	104.5	114.5	126.1
EER			2.54	2.71	2.70	2.59	2.50	2.37
Dimensions	HxWxD	mm	2,340x2,235x3,140	2,340x2,235x4,040	2,340x2,235x4,040	2,340x2,235x4,040	2,340x2,235x4,040	2,340x2,235x4,040
Machine weight		kg	3,046	3,366	3,466	3,546	3,556	3,556
Operating weight		kg	3,136	3,479	3,579	3,710	3,715	3,715
Nominal air flow rate		m^3/min	774	1,074	1,032	1,032	1,032	1,032
Fan speed		rpm	500	500	500	500	500	500
Sound power level		dBA	84.3	84;7	84.7	84.7	84.7	84.7
Compressor type			Semi-hermetic single screw compressor					
Capacity steps		%	12.5 - 100					
Number of refrigerant circuits			2					
Refrigerant type			R-134a					
Power supply		YN	400V/3~/50Hz					
Evaporator type			Shell and tube					
Water flow rate	min	l/min	364	474	483	518	566	572
	max	l/min	1,152	1,500	1,527	1,637	1,790	1,809
Nominal water pressure drop		kPa	25.5	19.5	22.5	22.5	21.0	22.5
Min water volume in the system		l	90	113	113	164	159	159
Piping connections	evaporator water inlet/outlet		4"					

EWAD-AJYNN/Q

AIR COOLED (cooling only)			EWAD340AJYNN/Q	EWAD400AJYNN/Q	EWAD440AJYNN/Q	EWAD460AJYNN/Q	EWAD500AJYNN/Q
Cooling capacity		kW	308.8	400.5	428.5	447.8	500.8
Power input	cooling	kW	136.3	156.0	173.8	169.2	189.9
EER			2.27	2.57	2.47	2.65	2.64
Dimensions	HxWxD	mm	2,340x2,235x4,040	2,340x2,235x4,040	2,340x2,235x4,040	2,340x2,235x4,940	2,340x2,235x4,940
Machine weight		kg	3,556	3,567	3,722	3,912	3,972
Operating weight		kg	3,715	3,737	3,892	4,076	4,136
Nominal air flow rate		m^3/min	1,032	1,704	1,644	1,926	2,208
Fan speed		rpm	500	500	500	500	500
Sound power level		dBA	84.7	84.7	84.7	85.7	86.2
Compressor type			Semi-hermetic single screw compressor				
Capacity steps		%	12.5 - 100				
Number of refrigerant circuits			2				
Refrigerant type			R-134a				
Power supply		YN	400V/3~/50Hz				
Evaporator type			Shell and tube	*	*	*	*
Water flow rate	min	l/min	571	*	*	*	*
	max	l/min	1,807	*	*	*	*
Nominal water pressure drop		kPa	24.0	*	*	*	*
Min water volume in the system		l	159	170	170	164	164
Piping connections	evaporator water inlet/outlet		4"	*	*	*	*

* Information was not available at time of publication

NEW

EWAD-AJYNN/A

Air-cooled

High Efficiency

R-134a

screw

STRENGTHS
- High Efficiency
- Eurovent class A: EER up to 3,21
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 247-626,6kW
- 2 truly independent refrigerant circuits
- DX shell and tube evaporator – one pass
- Refrigerant side to minimize pressure drops
- Several operating sound levels down to 96dB

STANDARD AVAILABLE
- Glycol application
- Evaporator heater
- Suction stop valve
- Main switch

OPTIONS (factory mounted)
- Single pump
- Twin pump
- High ESP pump
- High ESP twin pump
- Total heat recovery
- Partial heat recovery
- Fan silent
- Low ambient
- Power factor 0.9
- Low noise
- Gauges
- Coil guards
- Soft starter (500-550-600-650)
- Blank cu/al coils
- Electronic expansion valve

ACCESSORIES
- Communication cards (EKAC200J – EKACBAC - EKACLON)
- Remote user interface (EKRUPCJ)
- Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- Sequencing panel (EKCSCII)
- Plant visor (EKPV2J)
- Modem (EKMODEM – EKGSMOD)
- Converter RS485 to RS 232 (EKCON)

AIR COOLED (cooling only)			EWAD260AJYNN/A	EWAD280AJYNN/A	EWAD320AJYNN/A	EWAD340AJYNN/A	EWAD360AJYNN/A	EWAD380AJYNN/A
Cooling capacity		kW	247.0	275.0	301.5	327.0	351.0	376.0
Power input	cooling	kW	79.2	87.3	94.2	103.8	112.8	120.2
EER			3.12	3.15	3.20	3.15	3.11	3.13
Dimensions	HxWxD	mm	2,340x2,235x3,140	2,340x2,235x4,040	2,340x2,235x4,040	2,340x2,235x40,40	2,340x2,235x4,040	2,340x2,235x4,040
Machine weight		kg	2,866	3,186	3,286	3,366	3,376	3,321
Operating weight		kg	2,959	3,299	3,399	3,530	3,535	3,480
Nominal air flow rate		m^3/min	1,338	1,836	1,782	1,782	1,782	2,640
Fan speed		rpm	900	900	900	900	900	900
Sound power level		dBA	96.8	97.2	97.2	97.2	97.2	99.7
Compressor type			Semi-hermetic single screw compressor					
Capacity steps		%	12.5 - 100					
Number of refrigerant circuits			2					
Refrigerant type			R-134a					
Power supply		YN	400V/3~/50Hz					
Evaporator type			Shell and tube					
Water flow rate	min	l/min	373	489	495	537	586	593
	max	l/min	1,546	1,565	1,697	1,853	1,876	1,890
Nominal water pressure drop		kPa	36.0	26.0	30.5	30.5	29.5	33.0
Min water volume in the system		l	93	113	113	164	159	159
Piping connections	evaporator water inlet/outlet		4"					

EWAD-AJYNN/A

AIR COOLED (cooling only)			EWAD420AJYNN/A	EWAD500AJYNN/A	EWAD550AJYNN/A	EWAD600AJYNN/A	EWAD650AJYNN/A
Cooling capacity		kW	401.0	501.4	546.0	582.2	626.6
Power input	cooling	kW	127.5	160.6	179.0	183.5	195.4
EER			3.15	3.12	3.05	3.17	3.21
Dimensions	HxWxD	mm	2,340x2,235x4,040	2,340x2,235x4,040	2,340x2,235x4,940	2,340x2,235x4,940	2,340x2,235x4,940
Machine weight		kg	3,386	4,252	4,642	4,652	4,652
Operating weight		kg	3,545	4,515	4,905	4,908	4,908
Nominal air flow rate		m^3/min	2,580	2,580	3,228	3,228	3,228
Fan speed		rpm	900	890	890	890	890
Sound power level		dBA	99.7	98.7	99.2	99.2	99.2
Compressor type			Semi-hermetic single screw compressor				
Capacity steps		%	12.5 - 100				
Number of refrigerant circuits			2				
Refrigerant type			R-134a				
Power supply		YN	400V/3~/50Hz				
Evaporator type			Shell and tube				
Water flow rate	min	l/min	598	*	*	*	*
	max	l/min	1,890	*	*	*	*
Nominal water pressure drop		kPa	37.0	*	*	*	*
Min water volume in the system		l	159	263	263	256	256
Piping connections	evaporator water inlet/outlet		4"	*	*	*	*

* Information was not available at time of publication

NEW

EWAD-AJYNN/H

Air-cooled

High Ambient

R-134a

screw

STRENGTHS
- High ambient
- Up to 48°
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 194,6–600,4kW
- Eurovent class A: EER up to 3,10
- 2 truly independent refrigerant circuits
- DX shell and tube evaporator – one pass
- Refrigerant side to minimize pressure drops
- Several operating sound levels down to 96dB

STANDARD AVAILABLE
- Glycol application
- Evaporator heater
- Suction stop valve
- Main switch

OPTIONS (factory mounted)
- Single pump
- Twin pump
- High ESP pump
- High ESP twin pump
- Total heat recovery
- Partial heat recovery
- Fan silent
- Power factor 0.9
- Gauges
- Coil guards
- Soft starter (420-460-480-500-550-600)
- Blank cu/al coils
- Electronic expansion valve

ACCESSORIES
- Communication cards (EKAC200J – EKACBAC - EKACLON)
- Remote user interface (EKRUPCJ)
- Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- Sequencing panel (EKCSCII)
- Plant visor (EKPV2J)
- Modem (EKMODEM – EKGSMOD)
- Converter RS485 to RS 232 (EKCON)

AIR COOLED (cooling only)			EWAD200AJYNN/H	EWAD210AJYNN/H	EWAD240AJYNN/H	EWAD260AJYNN/H	EWAD280AJYNN/H	EWAD300AJYNN/H	EWAD320AJYNN/H	EWAD340AJYNN/H
Cooling capacity		kW	194.6	208.3	233.5	256.1	273.7	289.3	306.4	335.6
Power input	cooling	kW	77.2	75.6	83.0	91.0	97.8	103.9	112.1	120.3
EER			2.52	2.76	2.81	2.81	2.80	2.78	2.73	2.79
Dimensions	HxWxD	mm	2,340x2,235x2,240	2,340x2,235x2,240	2,340x2,235x3,140	2,340x2,235x3,140	2,340x2,235x3,140	2,340x2,235x3,140	2,340x2,235x3,140	2,340x2,235x4,040
Machine weight		kg	2,380	2,466	2,766	2,766	2,806	2,846	2,846	3,166
Operating weight		kg	2,405	2,497	2,859	2,859	2,896	2,936	2,936	3,279
Nominal air flow rate		m^3/min	1,434	1,368	2,154	2,154	2,100	2,046	2,046	2,874
Fan speed		rpm	900							
Sound power level		dBA	98.2	98.2	98.8	98.8	98.8	98.8	98.8	99.2
Compressor type			Semi-hermetic single screw compressor							
Capacity steps		%	12.5 - 100							
Number of refrigerant circuits			2							
Refrigerant type			R-134a							
Power supply		YN	400V/3~/50Hz							
Evaporator type			Plate to plate heat exchanger		Shell and tube	Shell and tube	Shell and tube	Shell and tube	Shell and tube	Shell and tube
Water flow rate	min	l/min	314	378	331	337	366	369	373	507
	max	l/min	994	1,194	1,045	1,065	1,157	1,167	1,179	1,603
Nominal water pressure drop		kPa	31.5	25.0	41.0	47.5	46.0	50.5	55.5	36.0
Min water volume in the system		l	25	31	93	93	90	90	90	11
Piping connections	evaporator water inlet/outlet		3"	3"	4"	4"	4"	4"	4"	4"

EWAD-AJYNN/H

AIR COOLED (cooling only)			EWAD400AJYNN/H	EWAD420AJYNN/H	EWAD460AJYNN/H	EWAD480AJYNN/H	EWAD500AJYNN/H	EWAD550AJYNN/H	EWAD600AJYNN/H
Cooling capacity		kW	381.2	444.2	477.5	502.1	529.5	540.0	600.4
Power input	cooling	kW	127.4	146.3	161.4	170.8	180.1	174.0	198.4
EER			2.99	3.04	2.96	2.94	2.94	3.10	3.03
Dimensions	HxWxD	mm	2,340x2,235x4,040	2,340x2,235x4,040	2,340x2,235x4,940	2,340x2,235x4,940	2,340x2,235x4,940	2,340x2,235x4,940	2,340x2,235x4,940
Machine weight		kg	3,186	3,942	4,202	4,277	4,332	4,392	4,402
Operating weight		kg	3,299	4,112	4,372	4,441	4,496	4,552	4,562
Nominal air flow rate		m^3/min	2,874	2,580	3,372	3,300	3,228	3,228	3,228
Fan speed		rpm	900	890	890	890	890	890	890
Sound power level		dBA	101	96.7	97.7	97.7	97.7	99.2	99.7
Compressor type			Semi-hermetic single screw compressor						
Capacity steps		%	12.5 - 100						
Number of refrigerant circuits			2						
Refrigerant type			R-134a						
Power supply		YN	400V/3~/50Hz						
Evaporator type			Shell and tube	*	*	*	*	*	*
Water flow rate	min	l/min	518	*	*	*	*	*	*
	mmax	l/min	1,638	*	*	*	*	*	*
Nominal water pressure drop		kPa	44.5	*	*	*	*	*	*
Min water volume in the system		l	113	170	170	164	164	160	160
Piping connections	evaporator water inlet/outlet		4"	*	*	*	*	*	*

* Information was not available at time of publication

NEW

EWAD-BJYNN

Air-cooled

R-134a

screw

STRENGTHS
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 640–1772kW
- EER range up to 2,93
- 2-3-4 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass
- Refrigerant side to minimize pressure drops
- Several operating sound levels down to 100dB

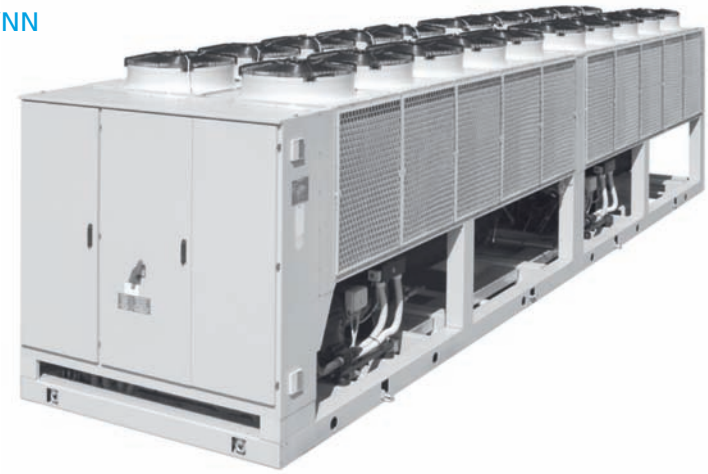
STANDARD AVAILABLE
- Glycol application
- Evaporator heater
- Main switch
- Electronic expansion valve

OPTIONS (factory mounted)
- Suction stop valve
- Single pump (650-700-750-850-900-950-10-11-12-13)
- Twin pump (650-700-750-850-900-950-10-11-12-13)
- Total heat recovery
- Partial heat recovery
- High ESP fans
- Reduced noise / Low noise
- Fan silent
- Low ambient
- Power factor 0.9
- A/V meter
- Gauges
- Coil guards
- Soft starter
- Blank cu/al coils

ACCESSORIES
- Communication cards (EKAC200J – EKACLON)
- Bacnet gateway (EKBMSBNJ)
- Remote user interface (EKRUPCK)
- Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- Sequencing panel (EKCSCII)
- Plant visor (EKPV2J)
- Modem (EKMODEM – EKGSMOD)
- Converter RS485 to RS 232 (EKCON)

COOLING (cooling only)			EWAD650BJYNN	EWAD700BJYNN	EWAD750BJYNN	EWAD850BJYNN	EWAD900BJYNN	EWAD950BJYNN	EWADC10BJYNN
Cooling capacity		kW	640	700	761	817	886	988	1,057
Power input	cooling	kW	233	250	271	290	302	358	372
EER			2.75	2.80	2.81	2.82	2.93	2.76	2.84
Dimensions	HxWxD	mm	2,520x2,230x5,310	2,520x2,230x5,310	2,520x2,230x6,210	2,520x2,230x6,210	2,520x2,230x6,210	2,520x2,230x7,400	2,520x2,230x8,270
Machine weight		kg	4,910	4,990	5,256	5,480	5,580	7,550	7,830
Operation weight		kg	5,130	5,200	5,520	5,734	5,834	7,970	8,250
Nominal air flow rate		m^3/min	2,850	3,168	3,486	3,798	3,870	4,434	5,160
Fan speed		rpm	860						
Sound power level		dBA	100	100	100	100	101	100	101
Compressor type			Semi-hermetic single screw compressor						
Capacity steps		%	stepless 12.5 - 100	stepless 12.5 - 100	stepless 12.5 - 100	stepless 12.5 - 100	stepless 12.5 - 100	stepless 8.3 - 100	stepless 8.3 - 100
Number of refrigerant circuits			2	2	2	2	2	3	3
Refrigerant type			R-134a						
Power supply		YN	400V/3~/50Hz						
Evaporator type			Shell and tube						
Piping connections	evaporator inlet/outlet		Victaulic, diameter 168.3mm						

EWAD-BJYNN



COOLING (cooling only)			EWADC11BJYNN	EWADC12BJYNN	EWADC13BJYNN	EWADC14BJYNN	EWADC15BJYNN	EWADC16BJYNN	EWADC18BJYNN
Cooling capacity		kW	1,109	1,166	1,226	1,322	1,520	1,641	1,772
Power input	cooling	kW	396	417	435	452	540	580	604
EER			2.80	2.80	2.82	2.93	2.81	2.83	2.93
Dimensions	HxWxD	mm	2,520x2,230x8,270	2,520x2,230x9,200	2,520x2,230x9,200	2,520x2,230x9,200	2,520x2,230x11,900	2,520x2,230x11,900	2,520x2,230x11,900
Machine weight		kg	7,830	8,420	8,420	8,570	9,552	10,632	10,832
Operation weight		kg	8,250	8,830	8,830	8,980	10,024	11,140	11,340
Nominal air flow rate		m^3/min	5,070	5,382	5,700	5,802	6,966	7,602	7,740
Fan speed		rpm	860						
Sound power level		dBA	101	101	101	102	102	102	103
Compressor type			Semi-hermetic single screw compressor						
Capacity steps		%	stepless 8.3 - 100	stepless 8.3 - 100	stepless 8.3 - 100	stepless 8.3 - 100	stepless 6,25 - 100	stepless 6,25 - 100	stepless 6,25 - 100
Number of refrigerant circuits			3	3	3	3	4	4	4
Refrigerant type			R-134a						
Power supply		YN	400V/3~/50Hz						
Evaporator type			Shell and tube						
Piping connections	evaporator inlet/outlet		Victaulic, diameter 168.3mm						

NEW

EWAD-BJYNN/Q

Air-cooled

Extra Low Noise

R-134a

screw

STRENGTHS
- Standard efficiency extra low noise
- Several operating sound levels down to 86dB
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 538–1197kW
- EER range up to 2,76
- 2-3-4 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass
- Refrigerant side to minimize pressure drops

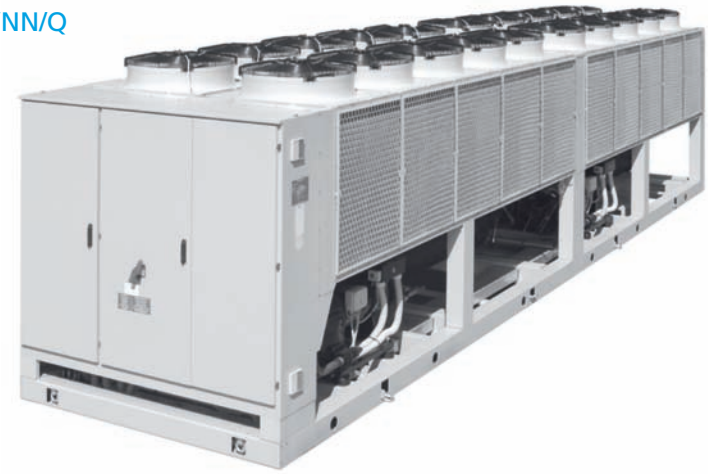
STANDARD AVAILABLE
- Glycol application
- Evaporator heater
- Main switch
- Electronic expansion valve

OPTIONS (factory mounted)
- Suction stop valve
- Single pump
- Twin pump
- Total heat recovery
- Partial heat recovery
- High ESP fans (550-600-650-700-750-900-950-10-11-12)
- Power factor 0.9
- A/V meter
- Gauges
- Coil guards
- Soft starter
- Blank cu/al coils

ACCESSORIES
- Communication cards (EKAC200J – EKACLON)
- Bacnet gateway (EKBMSBNJ)
- Remote user interface (EKRUPCK)
- Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- Sequencing panel (EKCSCII)
- Plant visor (EKPV2J)
- Modem (EKMODEM – EKGSMOD)
- Converter RS485 to RS 232 (EKCON)

AIR COOLED (cooling only)			EWAD550BJYNN/Q	EWAD600BJYNN/Q	EWAD650BJYNN/Q	EWAD700BJYNN/Q	EWAD750BJYNN/Q	EWAD800BJYNN/Q
Cooling capacity		kW	538	604	667	725	780	805
Power input	cooling	kW	223	235	249	267	286	335
EER			2.41	2.57	2.68	2.71	2.73	2.40
Dimensions	HxWxD	mm	2,520x2,230x5,310	2,520x2,230x6,210	2,520x2,230x6,210	2,520x2,230x7,110	2,520x2,230x7,110	2,520x2,230x8,300
Machine weight		kg	5,230	5,445	5,659	5,900	6,030	8,190
Operating weight		kg	5,440	5,650	5,864	6,150	6,280	8,610
Nominal air flow rate		m^3/min	1,536	1,692	1,848	1,998	2,154	2,526
Fan speed		rpm	500	500	500	500	500	500
Sound power level		dBA	86	86	86	87	87	87
Compressor type			Semi-hermetic single screw compressor					
Capacity steps		%	stepless 12.5 - 100	stepless 12.5 - 100	stepless 12.5 - 100	stepless 12.5 - 100	stepless 12.5 - 100	stepless 8.3 - 100
Number of compressors			10	11	12	13	14	16
Number of refrigerant circuits			2	2	2	2	2	3
Refrigerant type			R-134a					
Power supply		YN	400V/3~/50Hz					
Evaporator type			Shell and tube					
Water flow rate	min	l/min	716	953	956	841	839	1,053
	max	l/min	2,263	3,013	3,023	2,661	2,652	3,330
Nominal water pressure drop		kPa	46.5	33.0	40.0	61.0	71.0	48.0
Min water volume in the system		l	261	254	254	246	246	424
Piping connections	evaporator water inlet/outlet		Victaulic, diameter 168.3mm		Victaulic, diameter 168.3mm		Victaulic, ø 168.3mm	Victaulic, ø 219.1mm

EWAD-BJYNN/Q



AIR COOLED (cooling only)			EWAD850BJYNN/Q	EWAD900BJYNN/Q	EWAD950BJYNN/Q	EWADC10BJYNN/Q	EWADC11BJYNN/Q	EWADC12BJYNN/Q
Cooling capacity		kW	893	944	1,015	1,056	1,102	1,197
Power input	cooling	kW	347	361	371	390	407	434
EER			2.58	2.62	2.74	2.71	2.71	2.76
Dimensions	HxWxD	mm	2,520x2,230x8,300	2,520x2,230x9,200	2,520x2,230x9,200	2,520x2,230x10,100	2,520x2,230x10,100	2,520x2,230x11,000
Machine weight		kg	8,190	8,725	8,725	9,310	9,310	9,750
Operating weight		kg	8,610	9,150	9,150	9,720	9,720	10,160
Nominal air flow rate		m^3/min	2,460	2,616	2,766	3,078	3,078	3,384
Fan speed		rpm	500	500	500	500	500	500
Sound power mevel		dBA	87	87	87	88	88	89
Compressor type			Semi-hermetic single screw compressor					
Capacity steps		%	stepless 8.3 - 100	stepless 8.3 - 100	stepless 8.3 - 100	stepless 8.3 - 100	stepless 8.3 - 100	stepless 8.3 - 100
Number of compressors			16	18	18	20	20	22
Number of refrigerant circuits			3	3	3	3	3	3
Refrigerant type			R-134a					
Power supply		YN	400V/3~/50Hz					
Evaporator type			Shell and tube					
Water flow rate	min	l/min	1,008	1,012	1,013	1,397	1,406	1,413
	max	l/min	3,187	3,199	3,203	4,417	4,447	4,467
Nominal water pressure drop		kPa	64.5	71.5	82.5	47	50.5	59
Min water volume in the system		l	415	415	415	402	402	402
Piping connections	evaporator water inlet/outlet		Victaulic, ø 219.1mm	Victaulic, ø 219.1mm	Victaulic, ø 219.1mm	Victaulic, ø 219.1mm	Victaulic, ø 219.1mm	Victaulic, ø 219.1mm

NEW

EWAD-BJYNN/A

Air-cooled

High Efficiency — High Ambient

R-134a

screw

STRENGTHS

- High efficiency
- EER range up to 3,32
- High ambient up to 48°(standard noise version)
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 667–1920kW
- 2-3-4 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass
- Refrigerant side to minimize pressure drops
- Several operating sound levels down to 100dB

STANDARD AVAILABLE

- Glycol application
- Evaporator heater
- Main switch
- Electronic expansion valve

OPTIONS (factory mounted)

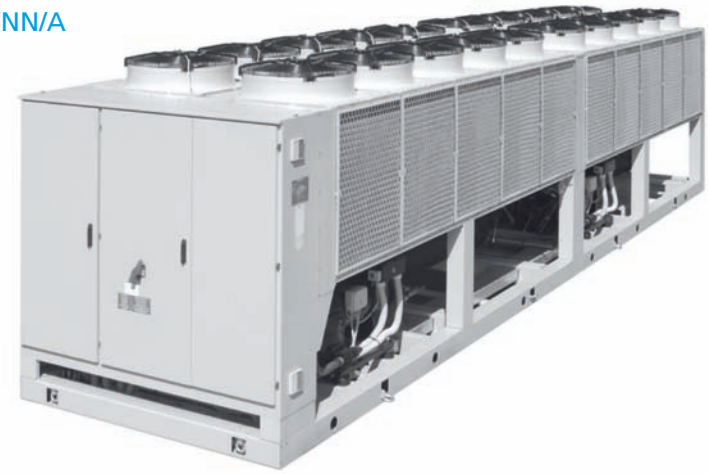
- Suction stop valve
- Single pump (650-700-800-850-900-950-10-11-12-13-14-15)
- Twin pump (650-700-800-850-900-950-10-11-12-13-14-15)
- Total heat recovery
- Partial heat recovery
- High ESP fans
- Reduced noise / Low noise
- Fan silent
- Low ambient
- Power factor 0.9
- A/V meter
- Gauges
- Coil guards
- Soft starter
- Blank cu/al coils

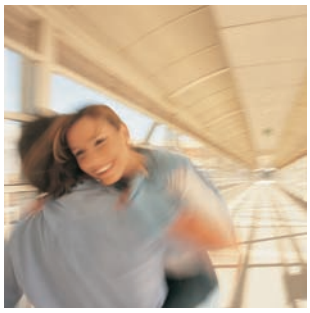
ACCESSORIES

- Communication cards (EKAC200J – EKACLON)
- Bacnet gateway (EKBMSBNJ)
- Remote user interface (EKRUPCK)
- Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- Sequencing panel (EKCSCII)
- Plant visor (EKPV2J)
- Modem (EKMODEM – EKGSMOD)
- Converter RS485 to RS 232 (EKCON)

AIR COOLED (cooling only)			EWAD650BJYNN/A	EWAD700BJYNN/A	EWAD800BJYNN/A	EWAD850BJYNN/A	EWAD900BJYNN/A	EWAD950BJYNN/A	EWADC10BJYNN/A	EWADC11BJYNN/A	EWADC12BJYNN/A
Cooling capacity		kW	667	723	800	855	903	926	974	1,038	1,094
Power input	cooling	kW	223	237	259	278	292	287	294	343	355
EER			2.99	3.04	3.09	3.07	3.09	3.23	3.31	3.03	3.08
Dimensions	HxWxD	mm	2,520x2,230x6,210	2,520x2,230x6,210	2,520x2,230x7,110	2,520x2,230x7,110	2,520x2,230x7,110	2,520x2,230x8,300	2,520x2,230x8,300	2,520x2,230x9,200	2,520x2,230x9,200
Machine weight		kg	5,205	5,419	5,660	5,790	5,890	6,333	6,563	8,420	8,420
Operating weight		kg	5,410	5,624	5,910	6,040	6,140	6,589	6,967	8,830	8,830
Nominal air flow rate		m^3/min	3,486	3,798	4,116	4,434	4,512	5,160	5,160	6,036	5,700
Fan speed		rpm	860	860	860	860	860	860	860	860	860
Sound power level		dBA	101	100	100	101	101	101	101	101	101
Compressor type			Semi-hermetic single screw compressor								
Capacity steps		%	stepless 12.5 - 100	stepless 12.5 - 100	stepless 12.5 - 100	stepless 12.5 - 100	stepless 12.5 - 100	stepless 12.5 - 100	stepless 12.5- 100	stepless 8.3 - 100	stepless 8.3 - 100
Number of compressors			2	2	2	2	2	2	2	3	3
Number of refrigerant circuits			2	2	2	2	2	2	2	3	3
Refrigerant type			R-134a								
Power supply		YN	400V/3~/50Hz								
Evaporator type			Shell and tube								
Water flow rate	min	l/min	956	966	843	845	1,141	1,266	1,861	1,015	1,017
	max	l/min	3,022	3,055	2,666	2,673	3,608	4,004	5,885	3,209	3,217
Nominal water pressure drop		kPa	40.0	46.0	74.0	84.0	51.5	44.0	22.5	86.0	95.0
Min water volume in the system		l	254	254	246	246	246	244	392	415	415
Piping connections	evaporator water inlet/outlet		Victaulic, ø 168.3mm						Victaulic, ø 219.1mm		

EWAD-BJYNN/A



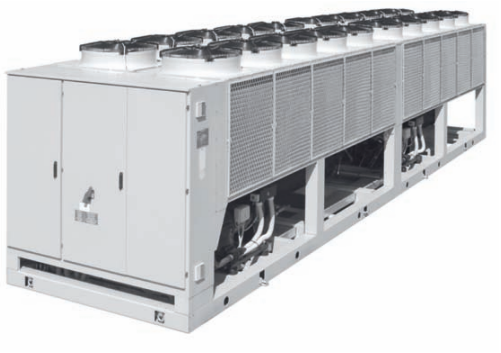


AIR COOLED (cooling only)			EWADC13BJYNN/A	EWADC14BJYNN/A	EWADC15BJYNN/A	EWADC16BJYNN/A	EWADC17BJYNN/A	EWADC18BJYNN/A	EWADC19BJYNN/A	EWADC20BJYNN/A	EWADC21BJYNN/A
Cooling capacity		kW	1,177	1,222	1,282	1,354	1,430	1,557	1,710	1,806	1,920
Power input	cooling	kW	377	399	415	433	430	520	558	584	603
EER			3.12	3.06	3.09	3.12	3.32	2.99	3.07	3.09	3.19
Dimensions	HxWxD	mm	2,520x2,230x10,100	2,520x2,230x10,100	2,520x2,230x11,000	2,520x2,230x11,000	2,520x2,230x12,800	2,520x2,230x12,800	2,520x2,230x13,670	2,520x2,230x13,670	2,520x2,230x13,670
Machine weight		kg	8,950	8,950	9,390	9,540	10,355	10,960	11,168	11,368	12,144
Operating weight		kg	9,360	9,360	9,800	9,950	10,931	11,420	11,678	11,878	13,036
Nominal air flow rate		m^3/min	6,336	6,336	6,966	7,098	8,400	8,232	8,868	9,030	9,030
Fan speed		rpm	860	860	860	860	860	860	860	860	860
Sound power level		dBA	102	102	102	103	103	102	103	103	103
Compressor type			Semi-hermetic single screw compressor								
Capacity steps		%	stepless 8.3 - 100					stepless 6.25 - 100			
Number of compressors			3	3	3	3	3	4	4	4	4
Number of refrigerant circuits			3	3	3	3	3	4	4	4	4
Refrigerant type			R-134a								
Power supply		YN	400V/3~/50Hz								
Evaporator type			Shell and tube								
Water flow rate	min	l/min	1,407	1,407	1,410	1,418	1,988	1,861	1,697	2,293	3,711
	max	l/min	4,450	4,450	4,458	4,483	6,287	5,886	5,366	7,250	11,734
Nominal water pressure drop		kPa	57.5	62	68	75	42.5	57.5	83,5	51	22
Min water volume in the system		l	402	402	402	402	533	254+246	246+246	246+246	392+392
Piping connections	evaporator water inlet/outlet		Victaulic, ø 219.1mm					Victaulic, ø 168.3mm			Vict., ø 219.1mm

NEW

EWAD-BJYNN/Z

High Efficiency — Extra Low Noise *Air-cooled*



EWAD-BJYNN/Z

R-134a

screw

STRENGTHS

- High efficiency and extra low noise
- EER range up to 2.75
- Several operating sound levels down to 86dB
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 569–1013kW
- 2-3-4 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass
- Refrigerant side to minimize pressure drops

STANDARD AVAILABLE

- Glycol application
- Evaporator heater
- Main switch
- Electronic expansion valve

OPTIONS (factory mounted)

- Single pump
- Twin pump
- Total heat recovery
- Partial heat recovery
- High ESP fans (600-650-700-950-10)
- Fan silent
- Power factor 0.9
- Suction stop valve
- A/V meter
- Gauges
- Coil guards
- Soft starter
- Blank cu/al coils

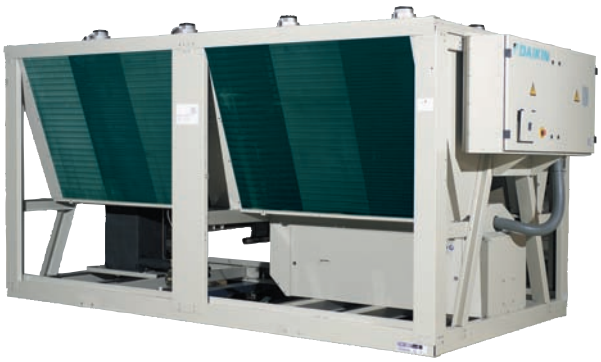
ACCESSORIES

- Communication cards (EKAC200J – EKACLON)
- Bacnet gateway (EKBMSBNJ)
- Remote user interface (EKRUPCK)
- Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- Sequencing panel (EKCSCII)
- Plant visor (EKPV2J)
- Modem (EKMODEM – EKGSMOD)
- Converter RS485 to RS 232 (EKCON)

AIR COOLED (cooling only)			EWAD600BJYNN/Z	EWAD650BJYNN/Z	EWAD700BJYNN/Z	EWAD850BJYNN/Z	EWAD900BJYNN/Z	EWAD950BJYNN/Z	EWADC10BJYNN/Z
Cooling capacity		kW	569	631	668	840	914	953	1,013
Power input	cooling	kW	220	241	268	328	342	367	368
EER			2.59	2.62	2.49	2.56	2.67	2.60	2.75
Dimensions	HxWxD	mm	2,520x2,230x6,210	2,520x2,230x7,110	2,520x2,230x7,110	2,520x2,230x9,300	2,520x2,230x10,100	2,520x2,230x10,100	2,520x2,230x11,000
Machine weight		kg	5,659	5,900	6,030	8,725	9,310	9,310	9,750
Operating weight		kg	5,864	6,150	6,280	9,150	9,720	9,720	10,160
Nominal air flow rate		m^3/min	1,848	1,498	2,154	2,766	3,078	3,078	3,384
Fan speed		rpm	500	500	500	500	500	500	500
Sound power level		dBA	86	86	86	87	88	88	88
Compressor type			Semi-hermetic single screw compressor						
Capacity steps		%	stepless 12.5 - 100	stepless 12.5 - 100	stepless 12.5 - 100	stepless 8.3 - 100	stepless 8.3 - 100	stepless 8.3 - 100	stepless 8.3 - 100
Number of compressors			2	2	2	3	3	3	3
Number of refrigerant circuits			2	2	2	3	3	3	3
Refrigerant type			R-134a						
Power supply		YN	400V/3~/50Hz						
Evaporator type			Shell and tube						
Water flow rate	min	l/min	958	843	843	1,032	1,318	1,317	1,325
	max	l/min	3,028	2,665	2,666	3,263	4,169	4,164	4,189
Nominal water pressure drop		kPa	29.0	46.0	51.5	54.5	39.5	43.0	48.0
Min water volume in the system		l	254	246	246	415	402	402	402
Piping connections	evaporator water inlet/outlet		Victaulic, ø 168.3mm	Victaulic, ø 168.3mm	Victaulic, ø 168.3mm	Victaulic, ø 219.1mm	Victaulic, ø 219.1mm	Victaulic, ø 219.1mm	Victaulic, ø 219.1mm

EWAP-MBYNN

Air-cooled



EWAP200MBYN

R-407C

screw

Daikin Integrated Chiller Network

STRENGTHS

- DAIKIN stepless single screw compressor.
- Operation down to -15°C ambient temperature.
- Standard reverse phase protection.
- Freeze-up protection and prevention.
- PE treated condenser coil.
- VICTAULIC joints and filter as standard.
- DICN operation as standard within same series.
- Chilled water temperature down to - 5°C(ZH) or -10°C(ZL) (user setting).
- Standard discharge shut-off valve.
- Standard flow switch.
- Modular design.

OPTIONS (factory mounted)

- dual pressure relief valve on the condenser.
- Main isolator switch.
- Condenser protection grilles.
- Low noise (-5 to -7dB(A)).
- Compressor suction stop valve.
- Ampere & Voltmeter (read-out on switchbox).
- Hi-ESP fans.
- Inverter fans.
- Heat Recovery (see also page 26).

ACCESSORIES (kit)

- leaving water control sensor for DICN.
- BMS card.
- BMS gateway (MODBUS/J-BUS/BACNET protocol).
- Remote user interface (EKPUPC).

CONTROL

- Microprocessor control.
- Water inlet or outlet temperature control.
- Weekly operating schedule.

AVAILABLE INPUTS / OUTPUTS

Input

- ON / OFF (per circuit).
- Dual setpoint through analog signal.
- Floating setpoint.
- Pump / flow switch.

Output

- Compressor operation.
- Summary alarm (per circuit).
- Pump relay contact.

AIR-COOLED (cooling only)			EWAP110MBYNN	EWAP140MBYNN	EWAP160MBYNN	EWAP200MBYNN	EWAP280MBYNN	EWAP340MBYNN	EWAP400MBYNN	EWAP460MBYNN	EWAP540MBYNN
Cooling capacity		kW	111	144	164	199	285	349	395	468	541
Power input	cooling	kW	41.9	51.8	64.3	78.1	108	140	156	189	222
EER			2.65	2.78	2.55	2.55	2.64	2.49	2.53	2.48	2.44
Dimensions	HxWxD	mm	2,250x2,346x2,238			2,250x4,280x2,238			2,250x5,901x2,238		
Machine weight		kg	1,417	1,571	1,660	2,203	2,583	2,633	4,865	4,988	5,111
Operation weight		kg	1,425	1,584	1,676	2,223	2,610	2,667	4,939	5,069	5,199
Nominal air flow rate		m^3/min	960	960	960	1,920	1,920	1,920	2,880	2,880	2,880
Fan speed		rpm	730	900	900	730	900	900	900	900	900
Sound power level (standard/low noise option)		dBA	89/86	94/89	94/88	95/93	96/90	98/92	99/93	99/94	99/94
Compressor type			Semi-hermetic single screw stepless compressor								
Capacity steps		%	30-100						15-100		
Number of compressors			1						2		
Number of refrigerant circuits			1						2		
Refrigerant type			R-407C								
Power supply		YN	400V/3~/50Hz								
Operation range	air side	°CDB	-10°C ~ 26°C								
	water side	°CDB	-15°C ~ 43°C								
Condenser type			Cross fin coil / Hi-X tubes and polyethylene coated waffle louvre fins								
Evaporator type			Brazed plate heat exchanger								
Water flow rate	min.	l/min	160	205	235	285	410	500	565	670	775
	max.	l/min	640	825	940	1,140	1,640	2,000	2,265	2,680	3,100
Nominal water pressure drop		kPa	50	48	41	31	42	52	35	39	44
Min. water volume in the system		l/min	540	700	800	970	1,390	1,710	970	1,140	1,320
Piping connections	evaporator water in/outlet		Flexible coupling + counterpipe for welding 3" OD			Flexible coupling + counterpipe for welding 3"			Flexible coupling + counterpipe for welding 5"		
	evaporator water drain		Compressor: 1"NPT				Compressor: 2x1"NPT		Compressor: 2x (1"NPT)	Compressor: 1x(1"NPT) +1x(2x1"NPT)	Compressor: 2x(2x1"NPT)

NEW

EWAP-AJYNN

Air cooled

R-407C

screw

STRENGTHS

- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-407C
- Cooling range: 790–1650kW
- EER range up to 2,35
- 2 -3 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass
- Refrigerant side for easy oil circulation and return
- Several operating sound levels down to 101dB

STANDARD AVAILABLE

- Glycol application
- Evaporator heater
- Main switch
- Electronic expansion valve

OPTIONS (factory mounted)

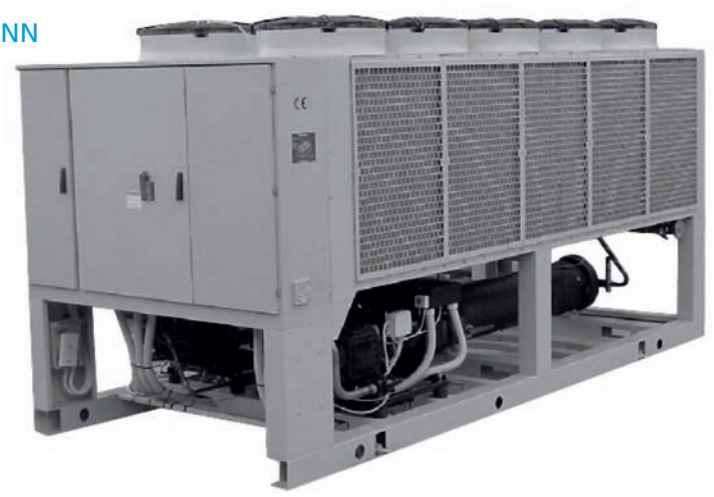
- Single pump (800-900-950-10-11-12-13-14)
- Twin pump (800-900-950-10-11-12-13-14)
- Total heat recovery
- Partial heat recovery
- High ESP fans
- Reduced noise / Low noise
- Fan silent
- Low ambient
- Power factor 0.9
- Suction stop valve
- A/V meter
- Gauges
- Coil guards
- Soft starter
- Blank cu/al coils

ACCESSORIES

- Communication cards (EKAC200J – EKACLON)
- Bacnet gateway (EKBMSBNJ)
- Remote user interface (EKRUPCK)
- Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- Sequencing panel (EKCSCII)
- Plant visor (EKPV2J)
- Modem (EKMODEM – EKGSMOD)
- Converter RS485 to RS 232 (EKCON)

AIR-COOLED (cooling only)			EWAP800AJYNN	EWAP900AJYNN	EWAP950AJYNN	EWAPC10AJYNN	EWAPC11AJYNN	EWAPC12AJYNN
Cooling capacity		kW	790	875	944	1,026	1,092	1,158
Power input	cooling	kW	340	373	405	442	476	507
EER			2.32	2.34	2.33	2.32	2.29	2.28
Dimensions	HxWxD	mm	2,520x6,210x2,230	2,520x7,110x2,230	2,520x7,110x2,230	2,520x8,010x2,230	2,520x8,010x2,230	2,520x9,170x2,230
Machine weight		kg	5,165	5,425	5,555	5,795	5,905	7,990
Operation weight		kg	5,430	5,710	5,840	6,070	6,180	8,270
Nominal air flow rate		m^3/min	3,978	4,314	4,644	4,974	5,304	5,970
Fan speed		rp	860					
Sound power level		dBA	101	102	102	103	103	103
Compressor type			Semi-hermetic single screw compressor					
Capacity steps		%	stepless 12.5-100	stepless 12.5-100	stepless 12.5-100	stepless 12.5-100	stepless 12.5-100	stepless 8.3-100
Number of compressors			2	2	2	2	2	3
Number of refrigerant circuits			2					
Refrigerant type			R-407C					
Power supply		YN	400V/3~/50Hz					
Evaporator type			Shell and tube					
Water flow rate	min	l/min	882	1,090	1,096	1,371	1,373	1,212
	max	l/min	2,788	3,445	3,465	4,337	4,341	3,833
Nominal water pressure drop		kPa	66	53	61	46	52	75
Minimum water volume in the system		l	278	271	271	256	256	263
Piping connections	evaporator water inlet/outlet		Victaulic, diameter 219.1mm					

EWAP-AJYNN



AIR-COOLED (cooling only)			EWAPC13AJYNN	EWAPC14AJYNN	EWAPC15AJYNN	EWAPC16AJYNN	EWAPC17AJYNN	EWAPC18AJYNN
Cooling capacity		kW	1,284	1,354	1,426	1,516	1,583	1,650
Power input	cooling	kW	546	578	609	647	682	717
EER			2.35	2.34	2.34	2.34	2.32	2.30
Dimensions	HxWxD	mm	2,520x10,070x2,230	2,520x10,070x2,230	2,520x10,970x2,230	2,520x10,970x2,230	2,520x11,870x2,230	2,520x11,870x2,230
Machine weight		kg	8,305	8,435	8,890	8,905	9,155	9,265
Operation weight		kg	8,775	8,905	9,360	9,350	9,600	9,710
Nominal air flow rate		m^3/min	6,300	6,636	7,440	7,296	7,632	7,962
Fan speed		rp	860	860	860	860	860	860
Sound power level		dBA	104	104	104	104	104	104
Compressor type			Semi-hermetic single screw compressor					
Capacity steps		%	stepless 8.3-100					
Number of compressors			3					
Number of refrigerant circuits			3					
Refrigerant type			R-407C					
Power supply		YN	400V/3~/50Hz					
Evaporator type			Shell and tube					
Water flow rate	min	l/min	1,614	1,626	1,642	2,357	2,359	2,365
	max	l/min	5,104	5,141	5,192	7,453	7,460	7,479
Nominal water pressure drop		kPa	52	57	62	34	37	40
Minimum water volume in the system		l	432	432	432	419	419	419
Piping connections	evaporator water inlet/outlet		Victaulic, diameter 273mm					

NEW

EWAP-AJYNN/A

Air cooled

High Efficiency

R-407C

screw

STRENGTHS

- High efficiency
- Several operating sound levels down to 102dB
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-407C
- Cooling range: 854–1729kW
- EER range up to 2.69
- 2 -3 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass
- Refrigerant side for easy oil circulation and return

STANDARD AVAILABLE

- Glycol application
- Evaporator heater
- Main switch
- Electronic expansion valve

OPTIONS (factory mounted)

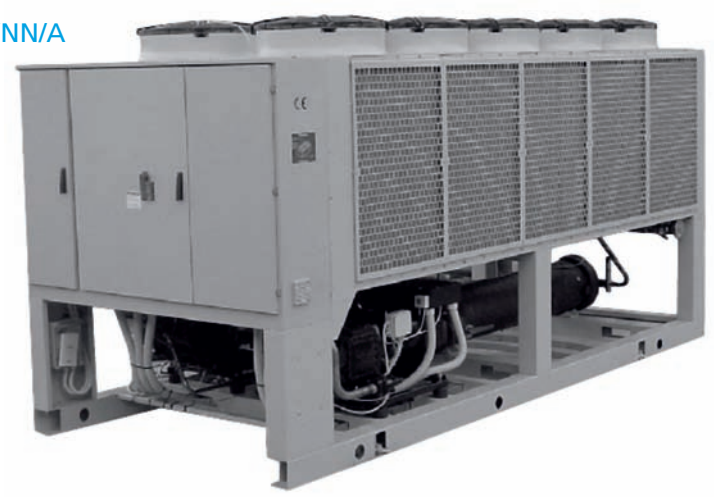
- Suction stop valve
- Single pump (800-900-950-10-11-12-13-14)
- Twin pump (800-900-950-10-11-12-13-14)
- Total heat recovery
- Partial heat recovery
- High ESP fans
- Reduced noise / Low noise
- Fan silent
- Low ambient
- Power factor 0.9
- A/V meter
- Guages
- Coil guards
- Soft starter
- Blank cu/al coils

ACCESSORIES

- Communication cards (EKAC200J – EKACLON)
- Bacnet gateway (EKBMSBNJ)
- Remote user interface (EKRUPCK)
- Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- Sequencing panel (EKCSCII)
- Plant visor (EKPV2J)
- Modem (EKMODEM – EKGSMOD)
- Converter RS485 to RS 232 (EKCON)

AIR-COOLED (cooling only)			EWAP850AJYNN/A	EWAP900AJYNN/A	EWAP950AJYNN/A	EWAPC10AJYNN/A	EWAPC11AJYNN/A	EWAPC12AJYNN/A
Cooling capacity		kW	854	954	1,028	1,124	1,196	1,253
Power input	cooling	kW	319	354	386	424	458	476
EER			2.67	2.69	2.66	2.65	2.61	2.63
Dimensions	HxWxD	mm	2,520x8,010x2,230	2,520x8,910x2,230	2,520x8,910x2,230	2,520x9,810x2,230	2,520x9,810x2,230	2,520x11,870x2,230
Machine weight		kg	5,900	6,170	6,290	6,525	6,645	9,050
Operation weight		kg	6,185	6,440	6,560	6,780	6,900	9,320
Nominal air flow rate		m^3/min	5,310	5,640	5,970	6,300	6,636	7,962
Fan speed		rp	860	860	860	860	860	860
Sound power level		dBA	102	102	103	103	103	104
Compressor type			Semi-hermetic single screw compressor					
Capacity steps		%	stepless 12.5-100	stepless 12.5-100	stepless 12.5-100	stepless 12.5-100	stepless 12.5-100	stepless 8.3-100
Number of compressors			2	2	2	2	2	3
Number of refrigerant circuits			2	2	2	2	2	3
Refrigerant type			R-407C					
Power supply		YN	400V/3~/50Hz					
Evaporator type			Shell and tube					
Water flow rate	min	l/min	1,084	1,351	1,374	1,169	1,176	1,560
	max	l/min	3,428	4,271	4,345	3,696	4,934	4,934
Nominal water pressure drop		kPa	51	41	46	76	85	53
Minimum water volume in the system		l	271	256	256	270	270	278
Piping connections	evaporator water inlet/outlet		Victaulic, diameter 219.1mm					

EWAP-AJYNN/A



AIR-COOLED (cooling only)			EWAPC13AJYNN/A	EWAPC14AJYNN/A	EWAPC15AJYNN/A	EWAPC16AJYNN/A	EWAPC17AJYNN/A	EWAPC18AJYNN/A
Cooling capacity		kW	1,357	1,427	1,497	1,595	1,644	1,729
Power input	cooling	kW	512	542	575	611	654	678
EER			2.65	2.63	2.60	2.61	2.51	2.55
Dimensions	HxWxD	mm	2,520x12,770x2,230	2,520x12,770x2,230	2,520x13,670x2,230	2,520x13,670x2,230	2,520x14,570x2,230	2,520x14,570x2,230
Machine weight		kg	9,505	9,625	10,060	10,075	10,410	10,470
Operation weight		kg	9,980	10,100	10,530	10,520	10,860	10,920
Nominal air flow rate		m^3/min	8,292	8,622	9,468	9,288	9,618	9,948
Fan speed		rp	860	860	860	860	860	860
Sound power level		dBA	104	104	105	105	105	105
Compressor type			Semi-hermetic single screw compressor					
Capacity steps		%	stepless 8.3-100					
Number of compressors			3					
Number of refrigerant circuits			3					
Refrigerant type			R-407C					
Power supply		YN	400V/3~/50Hz					
Evaporator type			Shell and tube					
Water flow rate	min	l/min	1,629	1,643	1,634	2,346	2,356	2,390
	max	l/min	5,153	5,195	5,166	7,417	7,452	7,559
Nominal water pressure drop		kPa	57	62	69	38	40	43
Minimum water volume in the system		l	432	432	432	419	419	419
Piping connections	evaporator water inlet/outlet		Victaulic, diameter 273mm					

EWTP-MBYNN

(Based on EWAP-MBYN)

Air-cooled

R-407C

screw

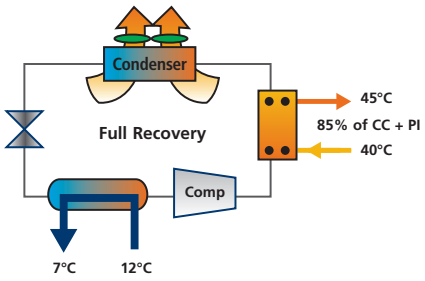
EWTP-MBYNN

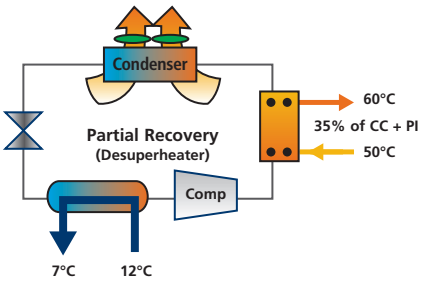
In many applications there often exists a simultaneous cooling and heating demand requirement alongside one another. To benefit from this Daikin offer the full range of R-407C EWTP110-540MBYN chillers with heat recovery. This option further increases the application flexibility and extends possibilities in the hotel and leisure industry as well as the industrial and process sectors.

By energetically recovering useful heat from the cooling cycle that would otherwise be rejected to outside COPs of up to 5.62 can be realized in heat recovery mode. The heat recovery unit aims to achieve an optimum balance between cooling and heat recovery to maximize the unit efficiency and offer savings in hot water production.

For full heat recovery both sensible and latent heat exchange will occur in the recovery exchanger. Inverter fans will be used to control the recovery outlet water temperature, by throttling back the airflow and maintaining the required condensing temperature.

As a desuperheater the sensible heat from the hot discharge gas will be recovered, while the latent heat exchange will occur in the air-cooled condenser. The units efficiency is maintained as condensing pressure can be reduced due to air-cooled condenser becoming oversized. Hot water temperatures up to 70°C can be achieved.





AIR-COOLED (heat recovery)			EWTP110MBYNN	EWTP140MBYNN	EWTP160MBYNN	EWTP200MBYNN	EWTP280MBYNN	EWTP340MBNN	EWTP400MBYNN	EWTP460MBYNN	EWTP540MBYNN
Nominal capacity	cooling	kW	107	138	158	191	274	335	379	449	520
	cooling during heat recovery	kW	97.7	126	144	171	251	311	337	401	465
	heat recovery	kW	116	148	176	208	301	377	407	434	441
Nominal input	cooling	kW	43.7	54	67	81.3	113	146	163	197	232
	heat recovery mode	kW	39.4	47.8	62.4	73.2	103	132	142	177	214
Heat recovered		%	85	85	85	85	85	85	85	75	65
Dimensions	HxWxD	mm	2,250x2,346x2,238			2,250x4,280x2,238			2,250x5,901x2,238		
Machine weight		kg	1,465	1,629	1,723	2,266	2,646	2,727	4,990	5,113	5,236
Operation weight		kg	1,483	1,654	1,752	2,299	2,692	2,784	5,090	5,220	5,350
Nominal air flow rate		m^3/min	960	960	960	1,920	1,920	1,920	2,880	2,880	2,880
Fan speed		rpm	730	900	900	730	900	900	900	900	900
Sound power level	standard / low noise	dBA	89/86	94/89	94/88	95/93	96/90	98/92	99/93	99/94	99/94
Compressor type			Semi-hermetic single screw compressor								
Capacity steps		%	30-100% stepless						15-100% stepless		
Number of compressors			1	1	1	1	1	1	2	2	2
Number of refrigerant circuits			1	1	1	1	1	1	2	2	2
Refrigerant type			R-407C								
Power supply		YN	400V/3~/50Hz								
Operation range	air side	°CDB	-10°C ~ 26°C								
	water side	°CDB	-15°C ~ 43°C								
Condenser type			Cross fin coil / Hi-X tubes and chromate waffle louvre fins								
Heat recovery condenser type			Brased plate heat exchanger, one per circuit								
Evaporator type			Brased plate heat exchanger, one per circuit								
Water flow rate	min.	l/min	160	205	235	285	410	500	565	670	775
	max.	l/min	640	825	940	1,140	1,640	2,000	2,265	2,680	3,100
Nominal water pressure drop		kPa	44	41	33	25	29	32	29	32	36
Min. water volume in the system		l	520	680	770	930	1,340	1,640	930	1,100	1,270
Piping connections	evaporator water inlet/outlet		Flexible coupling + counterpipe for welding 3" OD			Flexible coupling + counterpipe for welding 3"			"Flexible coupling 5"		
	heat recovery condenser inlet/outlet		2"G								
	evaporator water drain		field installation			1/4"G					

EUWAC-FZW

Air-cooled

R-407C

scroll

EUWAC8FZW

STRENGTHS

- Daikin scroll compressor.
- Standard reverse phase protection.
- High static pressure (up to 150Pa).
- Operation down to -10°C ambient temperature.
- Pressure gauges.

OPTIONS (factory mounted)

- Chilled water temperature down to - 5°C (ZH) or -10°C (ZL).

ACCESSORIES (kit)

- Filter.
- BMS gateway (MODBUS / J-BUS / BACNET protocol).
- Remote user interface.
- Hydraulic module (see page 28).

CONTROL

- Microprocessor control.
- Water inlet temperature control.

AVAILABLE INPUTS / OUTPUTS

Input
- ON / OFF (per circuit).
- Pump / flow switch.

Output
- Compressor operation.
- Summary alarm.
- Pump relay contact.

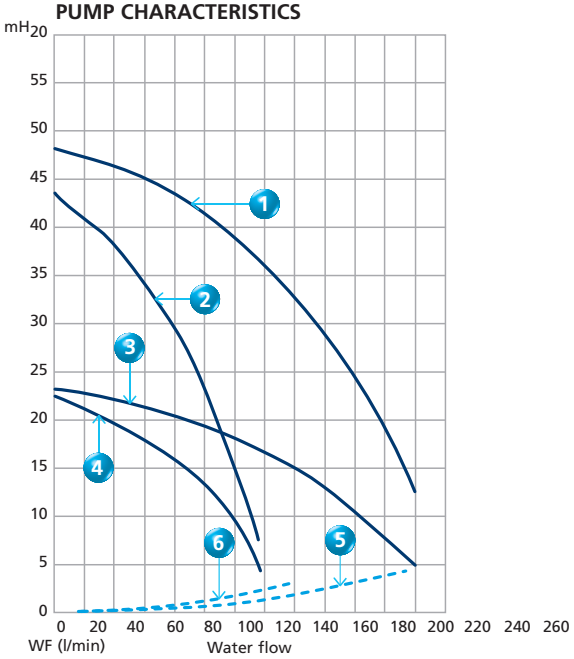
AIR-COOLED (cooling only)			EUWAC5FZW	EUWAC8FZW	EUWAC10FZW
Cooling capacity		kW	11.6	18.4	23.8
Power input	cooling	kW	5.25	7.78	9.85
EER			2.21	2.37	2.42
Dimensions	HxWxD	mm	1,345x856x630	1,290x1,180x630	1,395x1,330x630
Machine weight		kg	164	224	261
Operation weight		kg	166	228	266
Nominal air flow rate		m^3/sec	1.17	1.83	2.10
Fan	drive		direct drive	belt drive	
External static pressure	nom.	Pa	50	60	72
	max.	Pa	100	150	
Sound power level		dBA	63	66	69
Compressor type			Hermetically sealed scroll compressor		
Capacity steps		%	100-0		
Number of compressors			1		
Number of refrigerant circuits			1		
Refrigerant type			R-407C		
Power supply		W1	400V/3N~/50Hz		
Operation range	water side	°CDB	4°C (-10°C as option) ~ 21°C		
	air side	°CDB	-10°C ~ 43°C		
Condenser type			Cross fin coil / Hi-X tubes and chromate coated waffle louvre fins		
Evaporator type			Brazed plate heat exchanger		
Water flow rate	min.	l/min	16	23	28
	max.	l/min	64	92	112
Nominal pressure drop		kPa	26	42	48
Min. water volume in the system		l	101	153	212
Piping connections	evaporator in/outlet	"	1	1	1

EHMC-AV

Hydraulic module

EHMC15AV1010

PUMP CHARACTERISTICS



STRENGTHS

- 100l buffer tank.
- Freeze-up protection (heater tape).
- Single pump.
- 12l expansion vessel.
- Standard dual pressure ports.

LEGENDS

Pump characteristics
1 - EHMC30AV1080
2 - EHMC10AV1080 & EHMC15AV1080
3 - EHMC30AV1010
4 - EHMC10AV1010 & EHMC15AV1010

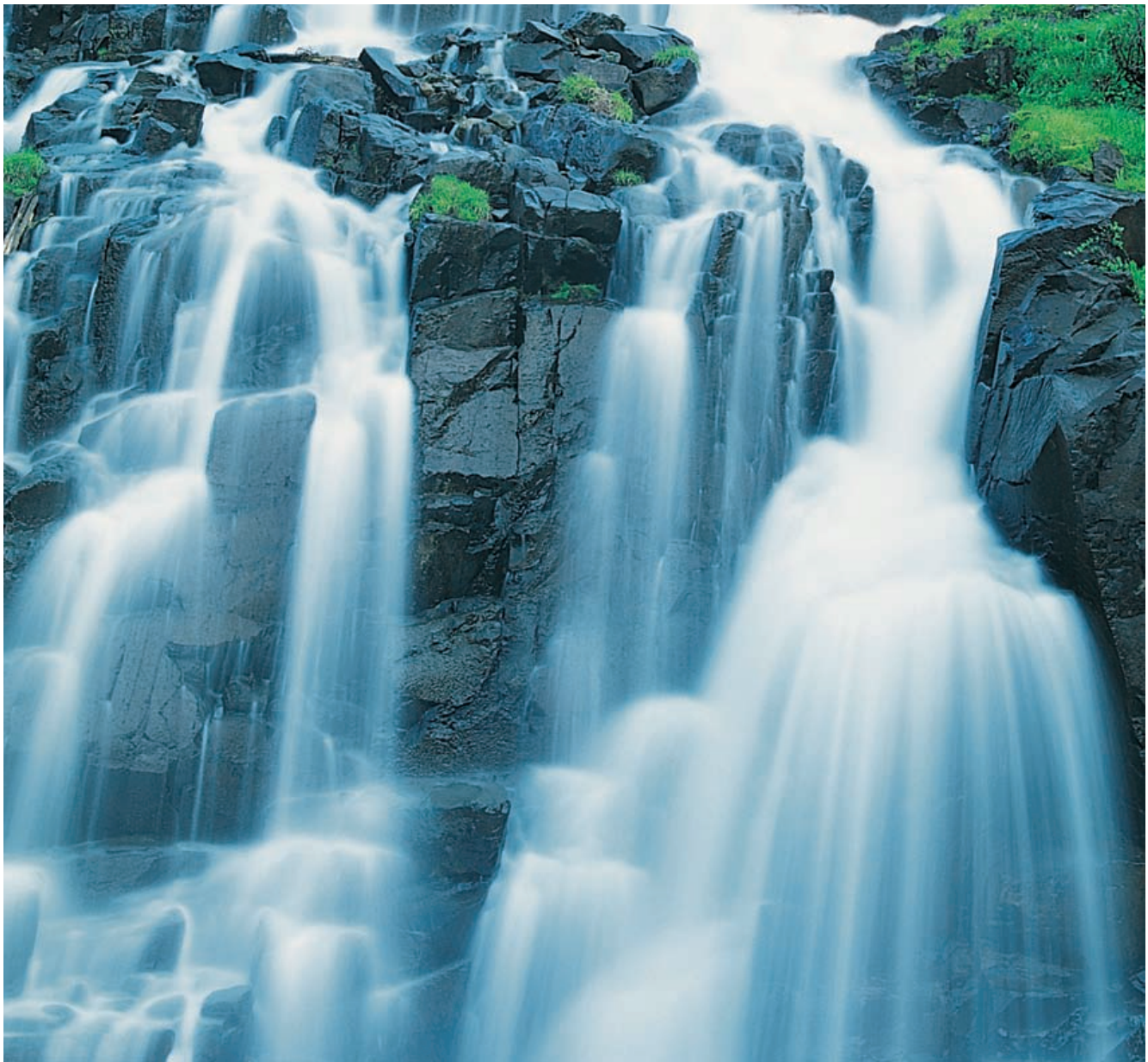
Hydraulic module + filter pressures losses
5 - EHMC15/30AV1010 & EHMC15/30AV1080
6 - EHMC10AV1010 & EHMC10AV1080

HYDRAULIC MODULE			EHMC10AV		EHMC15AV		EHMC30AV	
			1010	1080	1010	1080	1010	1080
Nominal flow		l/min	62		88		187	
Nominal static height		mH2O	17	34	15	27	10	27
Tank volume		l	100		100		100	
Number of pumps			1		1		1	
Expansion vessel volume		l	12		12		12	
Filter assembly			1" + 3/4"		2"		2 1/2" + 2"	
Dimensions	HxWxD	mm	1,284x635x688		1,284x635x688		1,284x635x688	
Machine weight		kg	99	101	102	104	105	111
Operation weight		kg	199	201	202	204	205	211
Sound power level		dBA	63	63	63	63	63	63
Power supply		V1	230V/1~/50Hz		230V/1~/50Hz		230V/1~/50Hz	
Operation range	water side	°CDB	-10°C ~ 55°C		-10°C ~ 55°C		-10°C ~ 55°C	
	air side	°CDB	-10°C ~ 43°C		-10°C ~ 43°C		-10°C ~ 43°C	
Piping connections			1" BSP F galvanised steel		2" BSP F galvanised steel		2 1/2" BSP F galvanised steel	

EKBT

Buffer tank

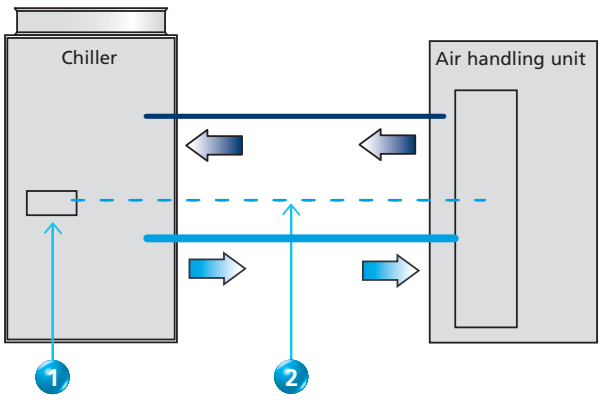
BUFFER TANK			EKBT
Tank volume		l	200
Material / insulation			Steel St37.2 / Trocellen-Al 10 mm
Safety valve		bar	1 x 6.0
Drain/fill valve			1
Automatic airpurge			1
Dimensions	HxWxD	mm	1,284x637x754
Machine weight		kg	86.5
Operation weight		kg	286.5
Operation range	water side	°C	-10°C to 55°C
	air side	°C	-15°C to 43°C
Power supply			230V/1 ~
Power input		W	200
Rated current		A	0.9



Remote evaporator

The Daikin ERAP condensing units can be used in a wide variety of air conditioning, refrigeration and ventilation applications. The ERAP operates with refrigerant R-407C, and can be connected to 3rd party manufactured evaporators, e.g. used in air handling units.

PIPING DIAGRAM FOR COMFORT COOLING APPLICATION



1 Switchbox
2 Thermistor line

TABLE OF CONTENTS

53 **ERAP-MBYNN** cooling only

ERAP-MBYNN

Remote evaporator

R-407C

screw

ERAP150MBYNN

STRENGTHS

- DAIKIN stepless single screw compressor.
- Operation down to -15°C ambient temperature.
- Standard reverse phase protection.
- Freeze-up protection and prevention.
- PE treated condenser coil.
- Liquid stop valve.
- Discharge stop valve.
- Standard suction stop valve.

OPTIONS (factory mounted)

- Main isolator switch.
- Condenser protection grilles.
- Low noise (down to -6dB(A)).
- Ampere & Voltmeter (read-out on switchbox).
- Hi-ESP fans.

ACCESSORIES (kit)

- BMS gateway (MODBUS/J-BUS/BACNET protocol).
- Remote user interface.

CONTROL

- Return air or room temperature control.
- Weekly operating schedule.

AVAILABLE INPUTS / OUTPUTS

Input
- ON / OFF.
- Dual setpoint through analog signal.
- Air flow switch.
- Capacity limit.

Output
- Compressor operation.
- Summary alarm.

REMOTE EVAPORATOR (cooling only)			ERAP110MBYNN	ERAP150MBYNN	ERAP170MBYNN
Cooling capacity		kW	114	150	171
Power input	cooling	kW	42.1	52.4	65.2
EER			2.71	2.86	2.62
Dimensions	HxWxD	mm	2,250 x 2,346 x 2,238		
Machine weight		kg	1,326	1,440	1,516
Nominal air flow rate		m^3/min		960	
Fan speed		rpm	730	900	900
Sound power level standard / low noise option		dBA	91/88	96/91	96/90
Compressor type			Stepless semi-hermetic single screw		
Capacity steps		%	30 to 100% stepless		
Number of compressors			1		
Number of refrigerant circuits			1		
Refrigerant type			R-407C		
Power supply		Y1	400V/3~/50Hz		
Operation range	evaporating temp.	°CDB	-15°C ~ 18°C		
	air side	°CDB	-15 C ~ 43°C		
Condenser type			Cross fin coil / Hi-X tubes and chromate coated waffle louvre fins		
Piping connections	condenser outlet		7/8"		
	compressor suction inlet		2 1/8"		

Remote condenser

Daikin offers you flexible and compact chillers with remote condenser, which can be used to satisfy applications with special requirements in the field of available space, sound level or extreme operating conditions. In these exceptional cases, remote condenser solutions can be preferred over standard air-cooled or water-cooled solutions.

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HYDROCUBE 56 **EWLP-KAW1N** cooling only

Compact line 57 **EWLD-MBYNN** cooling only

TECHNOLOGY SUPPORTING THE ENVIRONMENT

The only manufacturer to develop both the air conditioning equipment and refrigerants, DAIKIN boasts an international reputation in terms of technological innovation.

R-407C

Showing respect for the environment, R-407C is an HFC, which is used for remote condenser chillers within a capacity range of between 12 and 62kW.

Valued for the energy efficiencies that it helps attain, R-134a is a pure HFC. It is used for remote condenser chillers within a capacity range of between 116 and 530kW.

R-134a

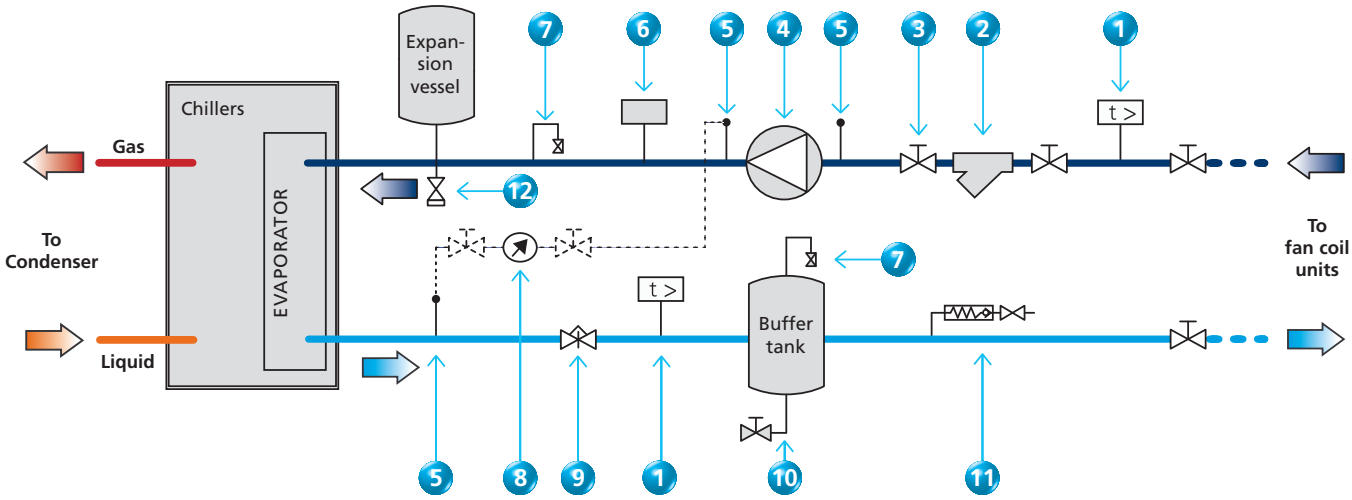
SCROLL COMPRESSORS

Being compact, the DAIKIN scroll compressor is used with R-407C. Designed for small and medium capacities, Scroll compressors are used with separate condenser chillers within the range of capacities between 12 and 62kW.

SINGLE SCREW STEPLESS COMPRESSORS

Developed and manufactured by DAIKIN, the DAIKIN single screw compressor is appreciated for its reliability. Single screw compressors are used with remote condenser chillers within the range of capacities between 100 and 580KW

PIPING DIAGRAM FOR COMFORT COOLING APPLICATION



1 Temperature sensor
2 Filter
3 Shut-off valve
4 Pump
5 Pressure port
6 Flow switch
7 Drain
8 Pressure gauge
9 Water flow adjusting valve
10 Drain valve
11 Fill valve
12 Safety valve

EWLP-KAW1N

Remote condenser

EWLP012KAWN

R-407C

scroll

HYDROCUBE

STRENGTHS

- One of the most compact units in the market (60cm x 60cm x 60cm for models 012 to 030).
- Daikin scroll compressor.
- Standard main isolator switch.
- Basic hydraulic components : included as a kit with the unit: flow switch, air purge, filter + shut-off valves.
- Standard reverse phase protection.

OPTIONS (factory mounted)

- Chilled water temperature down to - 5°C (ZH) or -10°C (ZL).

ACCESSORIES (kit)

- Compressor soundproof material (-3dBA).
- Hydraulic module (see page 28).
- BMS gateway (MODBUS/J-BUS / BACNET protocol).
- Remote user interface.

CONTROL

- Microprocessor control.
- Water inlet temperature control.

AVAILABLE INPUTS/OUTPUTS

Input
- Remote ON / OFF.
- Pump contact.

Output
- Compressor operation.
- Summary alarm.
- Pump relay contact.

REMOTE CONDENSER (cooling only)			EWLP012KAW1N	EWLP020KAW1N	EWLP026KAW1N	EWLP030KAW1N	EWLP040KAW1N	EWLP055KAW1N	EWLP065KAW1N
Nominal capacity		kW	12.1	20.0	26.8	31.2	40.0	53.7	62.4
Power input	cooling	kW	4.2	6.6	8.5	10.1	13.4	17.8	20.3
EER			2.88	2.98	3.08	3.06	2.96	2.98	3.04
Dimensions	HxWxD	mm	600x600x600				600x600x1,200		
Machine weight		kg	108	141	147	151	252	265	274
Sound power level		dBA	64	64	64	71	67	67	74
Compressor type			Hermetically sealed scroll						
Capacity steps			1				2		
Number of compressors			1				2		
Number of refrigerant circuits			1				2		
Refrigerant type			R-407C						
Power supply		W1	400V/3N~/50Hz						
Operation range - water side		°CDB	5°C (-10°C as option) ~ 20°C						
Operation range - condensing temperature		°C	25°C ~ 60°C						
Evaporator type			Brazed plate heat exchanger						
Water flow rate	min.	l/min	17	29	38	45	57	77	89
	nominal	l/min	35	57	77	89	115	154	179
	max.	l/min	69	115	153	179	229	307	358
Min. water volume in the system		l	62	103	134	155	205	268	311
Piping connections	evaporator water inlet/outlet	mm	FBSP25				FBSP40		
	discharge connection - flare	mm	12.7	19.1	19.1	19.1	2 x 19.1	2 x 19.1	2 x 19.1
	liquid connection - flare	mm	9.52	12.7	12.7	12.7	2 x 12.7	2 x 12.7	2 x 12.7

EWLD-MBYNN

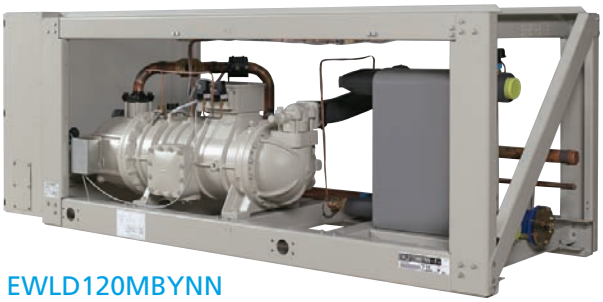
Remote condenser

R-134a

screw

Compact line

DICN Daikin Integrated Chiller Network



EWLD120MBYNN

STRENGTHS

- DAIKIN stepless single screw compressor.
- Compact and modular design.
- Standard phase sequence controller.
- VICTAULIC joints.
- DICN operation as standard within same series.
- Standard discharge shut-off valve.
- Standard flow switch.
- Standard filter.

OPTIONS (factory mounted)

- Main isolator switch.
- Low noise (-6dB(A)).
- Compressor suction stop valve.
- Ampere and Voltmeter (read-out on switchbox).
- Chilled water temperature down to - 5°C (ZH) or -10°C (ZL).
- Dual pressure relief valve.

ACCESSORIES (kit)

- BMS gateway (MODBUS/J-BUS / BACNET protocol).
- Remote user interface.

CONTROL

- Microprocessor control.
- Water inlet or outlet temperature control.
- Weekly operating schedule.

AVAILABLE INPUTS/OUTPUTS

Input
- ON / OFF.
- Pump contact.
- Dual setpoint through analog signal.
- Floating set point.

Output
- Compressor operation.
- Summary alarm.
- Fan-condenser relay contacts.
- Pump relay contact.

REMOTE CONDENSER (cooling only)			EWLD120MBYNN	EWLD170MBYNN	EWLD240MBYNN	EWLD260MBYNN	EWLD340MBYNN	EWLD400MBYNN	EWLD480MBYNN	EWLD500MBYNN	EWLD540MBYNN
Cooling capacity		kW	116	170	235	265	340	405	470	500	530
Power input	cooling	kW	32.0	49.8	66.5	77.9	99.6	116	133	144	156
EER			3.63	3.41	3.53	3.40	3.41	3.49	3.53	3.47	3.40
Dimensions	HxWxD	mm	1,018x2,681x930				2,000x2,681x930				
Machine weight		kg	891	1,110	1,342	1,428	2,220	2,452	2,684	2,770	2,856
Operation weight		kg	907	1,130	1,369	1,462	2,260	2,497	2,738	2,831	2,924
Sound power level (standard/low noise option)		dBA	87/81	93/87	94/88	93/87	96/90	96/90	96/90	96/90	96/90
Compressor type			Single screw stepless compressor								
Capacity steps			30-100% stepless				5-100% stepless				
Number of compressors			1	1	1	1	2	2	2	2	2
Number of refrigerant circuits			1	1	1	1	2	2	2	2	2
Refrigerant type			R-134a								
Power supply		Y1	400V/3~/50Hz								
Operation range	water side	°C	-10°C ~ 20°C								
	condensing temp.	°C	25°C ~ 55°C								
Evaporator type			Brazed plate heat exchanger								
Water flow rate	min.	l/min	175	265	350	400	525	625	700	750	800
	max.	l/min	700	1,070	1,400	1,600	2,100	2,500	2,800	3,000	3,200
Min. water volume in the system		l	570	830	1,150	1,300	830	990	1,150	1,220	1,295
Piping connections	type		Victaulic								
	evaporator water inlet/outlet		3"OD	3"							

Water-cooled

Daikin offers you compact water-cooled chiller units which require only very limited space in a machine room. Used for commercial or industrial applications, these chillers generate cold and hot water, which can be used for chilling, heating, or even both at the same time.

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HYDROCUBE Compact line

60 **EWWP-KAW1N** cooling only/heating only
62 **EWWD-MBYNN** cooling only/heating only
64 **EWWD-DJYNN** cooling only
66 **EWWD-DJYNN/A** cooling only
68 **EWWD-CJYNN** cooling only
70 **EWWD-BJYNN** cooling only

TECHNOLOGY SUPPORTING THE ENVIRONMENT

The only manufacturer to develop both the air conditioning equipment and refrigerants, DAIKIN boasts an international reputation in terms of technological innovation.

R-407C

Showing respect for the environment, R-407C is an HFC, which is used for water cooled chillers within a capacity range of between 13 and 195kW.

Valued for the energy efficiencies that it helps attain, R-134a is a pure HFC. It is used for water cooled chillers within a capacity range of between 123 and 1893kW.

R-134a

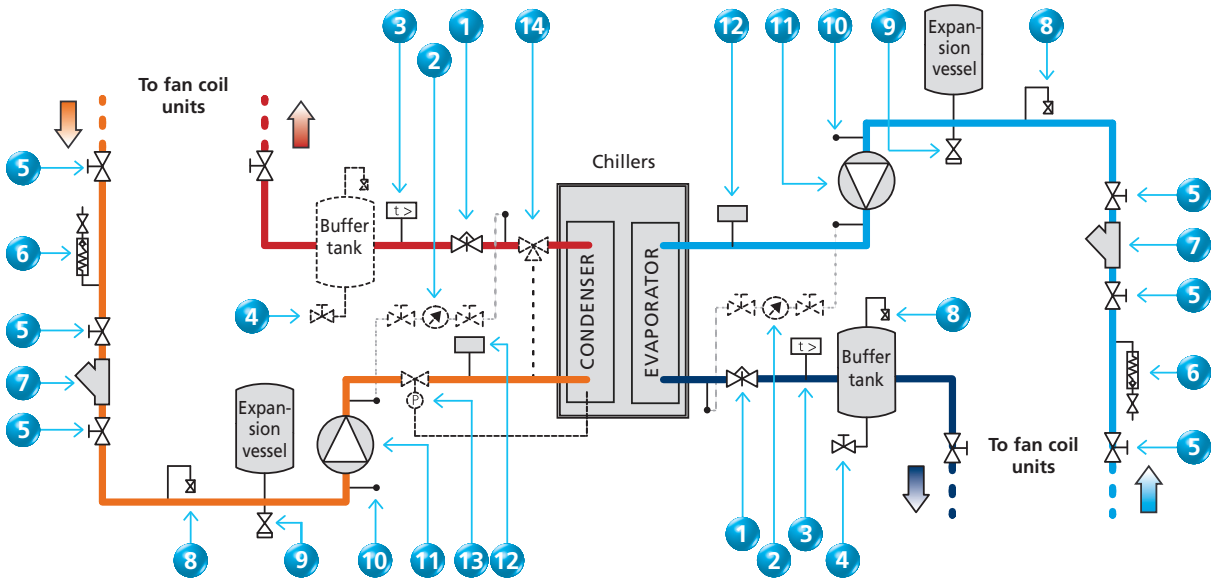
SCROLL COMPRESSORS

Being compact, the DAIKIN scroll compressor is used with R-407C. Designed for small and medium capacities, Scroll compres-sors are used with separate condenser chillers within the range of capacities between 12 and 62kW.

STEPLESS SINGLE SCREW COMPRESSORS

Developed and manufac-tured by DAIKIN, the DAIKIN single screw compressor is appreciated for its reliability. Single screw compressors are used with water-colled chillers within the range of capacities between 100 and 1893 kW.

PIPING DIAGRAM FOR COMFORT COOLING APPLICATION



1 Balancing valve
2 Pressure gauge
3 Temperature sensor
4 Drain valve
5 Shut-off valve
6 Fill valve
7 Filter
8 Drain
9 Safety valve
10 Pressure port
11 Pump
12 Flow switch
13 Pressure regulating valve
14 Bypass valve

EWWP-KAW1N

Water-cooled

R-407C

scroll

HYDROCUBE

STRENGTHS

- One of the most compact units in the market (60cm x 60cm x 60cm for models 014 to 035).
- Daikin scroll compressor.
- Standard reverse phase protection.
- Extension possible up to 195kW.

For single module units

- Standard main isolator switch.
- Basic hydraulic components for KA-series included with the unit as a kit: flow switch, air purge, filter + shut-off valves for both condenser and evaporator.

OPTIONS (factory mounted)

- Chilled water temperature down to - 5°C (OPZH) or -10°C (OPZL).

ACCESSORIES (kit)

- Compressor soundproof material (-3dBA).
- Hydraulic module (see page 28).
- BMS gateway (MODBUS/J-BUS / BACNET protocol).
- Remote user interface.

CONTROL

- Microprocessor control.
- Water inlet temperature control.
- Cold water or hot water regulation.

AVAILABLE INPUTS/OUTPUTS

Input
Remote ON/OFF.
Pump contact.
Cool/heat selection.
Output
Compressor operation.
Summary alarm.
Pump relay contact.

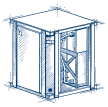
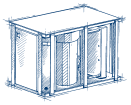
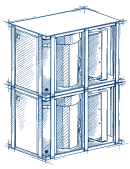
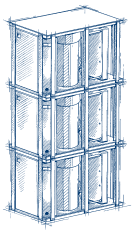
WATER-COOLED (cooling/heating only)				EWWP014KAW1N	EWWP022KAW1N	EWWP028KAW1N	EWWP035KAW1N	EWWP045KAW1N	EWWP055KAW1N	EWWP065KAW1N
Nominal capacity	cooling		kW	13.0	21.5	28.0	32.5	43.0	56.0	65.0
	heating (40°-45°C)		kW	15.4	25.2	34.2	39	50.1	67.2	77.4
Power input	cooling		kW	3.61	5.79	7.48	8.75	11.8	15.5	17.6
	heating (40°-45°C)		kW	4.47	7.16	9.52	11.19	14.5	19.5	22.5
EER				3.50	3.61	3.61	3.57	3.55	3.5	3.55
COP				3.42	3.55	3.64	3.51	3.43	3.48	3.50
Dimensions		HxWxD	mm	600x600x600				600x600x1,200		
Machine weight			kg	113	150	160	167	300	320	334
Sound power level			dBA	64	64	64	71	67	67	74
Compressor type				Hermetically sealed scroll						
Capacity steps				1				2		
Number of compressors				1				2		
Number of refrigerant circuits				1				2		
Refrigerant type				R-407C						
Power supply			W1	400V/3N~/50Hz						
Operation range - evaporator			°C	5°C (-10°C as option) ~ 20°C						
Operation range - condenser			°C	20°C ~ 55°C						
Condenser type				Brazed plate heat exchanger						
Evaporator type				Brazed plate heat exchanger						
Water flow rate - evaporator		min.	l/min	19	31	40	47	62	80	93
		nominal	l/min	37	62	80	93	123	161	186
		max.	l/min	75	123	161	186	247	321	373
Min. water volume in the system			l	62	103	134	155	205	268	311
Water flow rate - condenser		min.	l/min	24	39	51	59	79	102	118
		nominal	l/min	48	78	102	118	157	205	237
		max.	l/min	95	157	203	237	314	410	474
Piping connections	evaporator water inlet/outlet		mm	FBSP25				FBSP40		
	condenser water inlet/outlet		mm	FBSP25				FBSP40		

EWWP014-035KAW1N

EWWP090-130KAW1N

EWWP145-195KAW1N

The range of chillers EWWP014-065KAW1 can be extended up to 195kW in a modular way.
Units EWWP090-195KAW1 is a combination of up to 3 modules EWWP045-065KAW1, combined with control box ECB2/3MUW. For configuration guidelines, see below table or contact your local DAIKIN supplier.

SELECTION TABLE		1 MODULE (KA-series)							2 MODULES (KA-series)					3 MODULES (KA-series)					
																			
Capacity index		014	022	028	035	045	055	065	090	100	110	120	130	145	155	165	175	185	195
Cooling capacity (kW)		**13**	**21,5**	**28**	**32,5**	**43**	**56**	**65**	**86**	**99**	**112**	**121**	**130**	**142**	**155**	**168**	**177**	**186**	**195**
Heating capacity (kW)		**16**	**26.2**	**35.3**	**41**	**52.5**	**71**	**81**	**105**	**124**	**142**	**153**	**164**	**176**	**195**	**213**	**224**	**235**	**246**
UNIT + CONTROL (factory mounted)	EWWP014KAW1N	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP022KAW1N	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP028KAW1N	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP035KAW1N	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP045KAW1N	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP055KAW1N	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP065KAW1N	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
UNIT ONLY (Without Control)	EWWP045KAW1M	-	-	-	-	1	-	-	2	1	-	-	-	2	1	-	-	-	-
	EWWP055KAW1M	-	-	-	-	-	1	-	-	1	2	1	-	1	2	3	2	1	-
	EWWP065KAW1M	-	-	-	-	-	-	1	-	-	-	1	2	-	-	-	1	2	3
CONTROL (Kit)	ECB 1 MUW	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-
	ECB 2 MUW	-	-	-	-	-	-	-	1	1	1	1	1	-	-	-	-	-	-
	ECB 3 MUW	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1

For example: for a 121 kW -HP system, select :
EWWP055KAW1
+ EWWP065KAW1

EWWD-MBYNN

Water-cooled

R-134a

screw

Compact line

DICN Daikin Integrated Chiller Network

STRENGTHS

- Compact and modular design.
- DAIKIN stepless single screw compressor.
- Standard reverse phase protection.
- VICTAULIC joints.
- DICN operation as standard within same series.
- Standard discharge shut-off valve.
- Standard filter, flow switch.

OPTIONS (factory mounted)

- Main isolator switch.
- Low noise (-5 to -7dB(A)).
- Compressor suction stopvalve.
- Ampere & Voltmeter (read-out on switchbox).
- Chilled water temperature down to - 5°C (ZH) or -10°C (ZL).
- Dual pressure relief valve.

ACCESSORIES (kit)

- BMS gateway (MODBUS/J-BUS / BACNET protocol).
- Remote user interface (EKRUPC).

CONTROL

- Microprocessor control.
- Water inlet or outlet temperature control.
- Weekly operating schedule.

AVAILABLE INPUTS/OUTPUTS

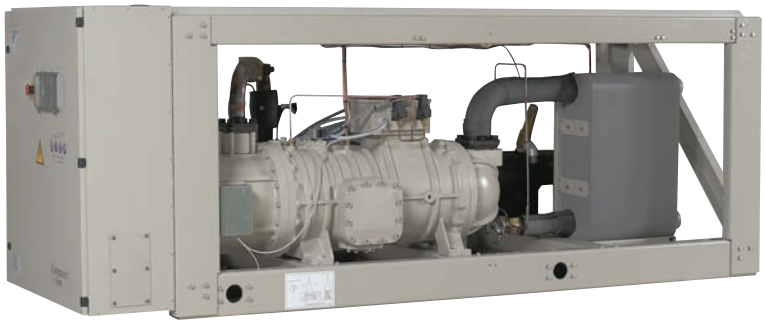
Input
- ON / OFF.
- Pump contact.
- Dual setpoint through analog signal.
- Floating setpoint.

Output
- Compressor operation.
- Summary alarm (per circuit).
- Pump relay contact.

WATER-COOLED (cooling/heating only)				EWWD120MBYNN	EWWD180MBYNN	EWWD240MBYNN	EWWD280MBYNN
Nominal capacity	cooling		kW	123	183	249	273
	heating		kW	147	216	290	327
Power input	cooling		kW	28.7	45.2	61.6	69.2
	heating		kW	34.5	54	72.8	83.4
EER				4.29	4.05	4.04	3.95
COP				4.26	4,00	3.98	3.92
Dimensions	HxWxD		mm	1,018x2,681x930			
Machine weight			kg	1,000	1,273	1,527	1,623
Operation weight			kg	1	1,318	1,588	1,693
Sound power level (standard/low noise option)			dBA	87/81	93/87	94/88	93/87
Compressor type				Semi-hermetic single screw stepless compressor			
Capacity steps				30-100% stepless			
Number of compressors				1	1	1	1
Number of refrigerant circuits				1	1	1	1
Refrigerant type				R-134a			
Power supply			Y1	400V/3~/50Hz			
Operation range	evaporator		°C	-10°C ~ 20°C			
	condenser		°C	20°C ~ 60°C			
Condenser type				Shell and tube			
Evaporator type				Brazed plate heat exchanger			
Water flow rate - evaporator	min.		l/min	175	265	350	400
	max.		l/min	700	1,070	1,400	1,600
Min. water volume in the system			l	600	890	1,220	1,330
Water flow rate - condenser	min.		l/min	217	336	450	520
	max.		l/min	800	1,050	1,230	1,370
Piping connections	type			Victaulic			
	evaporator water inlet/outlet			3"OD	3"		
	condenser water inlet/outlet			2" 1/2	3"		

EWWD540MBYNN
with low
noise option

EWWD120MBYNN



WATER-COOLED (cooling/heating only)				EWWD360MBYNN	EWWD440MBYNN	EWWD500MBYNN	EWWD520MBYNN	EWWD540MBYNN
Nominal capacity	cooling		kW	366	432	498	522	546
	heating		kW	431	505	580	617	655
Power input	cooling		kW	90.5	107	123	131	138
	heating		kW	108	127	146	156	167
EER				4.03	4.04	4.05	3.98	3.96
COP				3.99	3.98	3.97	3.96	3.92
Dimensions	HxWxD		mm	2,000x2,681x930				
Machine weight			kg	2,546	2,800	3,034	3,150	3,346
Operation weight			kg	2,636	2,908	3,156	3,281	3,485
Sound power level (standard/low noise option)			dBA	96/90	96/90	96/90	96/90	96/90
Compressor type				Semi-hermetic single screw stepless compressor				
Capacity steps				15-100% stepless				
Number of compressors				2	2	2	2	2
Number of refrigerant circuits				2	2	2	2	2
Refrigerant type				R-134a				
Power supply			Y1	400V/3~/50Hz				
Operation range	evaporator		°C	-10°C ~ 20°C				
	condenser		°C	20°C ~ 60°C				
Condenser type				Shell and tube				
Evaporator type				Brazed plate heat exchanger				
Water flow rate - evaporator	min.		l/min	525	625	700	750	800
	max.		l/min	2,100	2,500	2,800	3,000	3,200
Min. water volume in the system			l	895	1,055	1,215	1,275	1,335
Water flow rate - condenser	min.		l/min	670	790	900	970	1,040
	max.		l/min	2,100	2,290	2,470	2,600	2,730
Piping connections	type			Victaulic				
	evaporator water inlet/outlet			3"				
	condenser water inlet/outlet			3"				

NEW

EWWD-DJYNN

Water cooled

R-134a

screw

STRENGTHS
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 165.5–555.7kW
- EER range up to 4
- 1-2 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass
- Refrigerant side for easy oil circulation and return

STANDARD AVAILABLE
- Glycol application
- Suction stop valve
- Main switch
- Gauges
- Electronic expansion valve

OPTIONS (factory mounted)
- Total heat recovery
- Partial heat recovery
- Power factor 0.9
- A/V meter
- Low noise
- Soft starter
- Cu/ni heat exchanger

ACCESSORIES
- Communication cards (EKAC200J – EKACLON)
- Bacnet gateway (EKBMSBNJ)
- Remote user interface (EKRUPCK)
- Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- Sequencing panel (EKCSCII)
- Plant visor (EKPV2J)
- Modem (EKMODEM – EKGSMOD)
- Converter RS485 to RS 232 (EKCON)

WATER-COOLED (cooling only)			EWWD170DJYNN	EWWD210DJYNN	EWWD260DJYNN	EWWD300DJYNN	EWWD320DJYNN
Cooling capacity		kW	165.5	201.2	252.8	280.4	333.9
Power input	cooling	kW	42.1	50.7	64.9	75.4	84.3
EER			3.93	3.97	3.90	3.72	3.96
Dimensions	HxWxD	mm	1,860x3,435x920	1,860x3,435x920	1,860x3,435x920	1,860x3,435x920	1,880x4,305x860
Machine weight		kg	1,393	1,410	1,503	1,503	2,687
Operation weight		kg	1,470	1,480	1,650	1,650	2,840
Sound pressure level		dBA	69.7	69.7	69.7	69.7	71.7
Compressor type			Semi-hermetic single screw compressor				
Capacity steps		%	stepless 12.5-100				
Number of compressors			1	1	1	1	2
Number of refrigerant circuits			1	1	1	1	2
Refrigerant type			R-134a				
Power supply			400V/3~/50Hz				
condensor type			Shell and tube				
Evaporator type			Shell and tube				
Water flow rate	min	l/min	218	220	349	349	380
	max	l/min	688	694	1,105	1,104	1,201
Minimum water volume in the system		l	60	56	123	123	118

EWWD-DJYNN

WATER-COOLED (cooling only)			EWWD380DJYNN	EWWD420DJYNN	EWWD460DJYNN	EWWD500DJYNN	EWWD600DJYNN
Cooling capacity		kW	372.2	402.5	448.3	493.7	555.7
Power input	cooling	kW	93.1	101.4	115.1	129.0	150.2
EER			4.00	3.97	3.89	3.83	3.70
Dimensions	HxWxD	mm	1,880x4,305x860	1,880x4,305x860	1,880x4,305x860	1,880x4,305x860	1,880x4,305x860
Machine weight		kg	2,697	2,702	2,757	2,762	2,762
Operation weight		kg	2,850	2,860	2,970	2,970	2,970
Sound pressure level		dBA	71.7	71.7	71.7	71.7	71.7
Compressor type			Semi-hermetic single screw compressor				
Capacity steps		%	stepless 12.5-100				
Number of compressors			2				
Number of refrigerant circuits			2				
Refrigerant type			R-134a				
Power supply			400V/3~/50Hz				
condensor type			Shell and tube				
Evaporator type			Shell and tube				
Water flow rate	min	l/min	425	430	553	612	613
	max	l/min	1,344	1,360	1,749	1,935	1,939
Minimum water volume in the system		l	113	113	173	168	168

NEW

EWWD-DJYNN/A

Water cooled

High Efficiency

R-134a

screw

STRENGTHS
- High efficiency
- EER range up to 4,7
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 186.4–603.9kW
- 1-2 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass
- Refrigerant side for easy oil circulation and return

STANDARD AVAILABLE
- Glycol application
- Suction stop valve
- Main switch
- Gauges
- Electronic expansion valve

OPTIONS (factory mounted)
- Total heat recovery (190-230-28-320-380-400-460-500)
- Partial heat recovery
- Power factor 0.9
- A/V meter
- Low noise
- Soft starter
- Cu/ni heat exchanger

ACCESSORIES
- Communication cards (EKAC200J – EKACLON)
- Bacnet gateway (EKBMSBNJ)
- Remote user interface (EKRUPCK)
- Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- Sequencing panel (EKCSCII)
- Plant visor (EKPV2J)
- Modem (EKMODEM – EKGSMOD)
- Converter RS485 to RS 232 (EKCON)

WATER-COOLED (cooling only)			EWWD190DJYNN/A	EWWD230DJYNN/A	EWWD280DJYNN/A	EWWD320DJYNN/A	EWWD380DJYNN/A
Cooling capacity		kW	186.4	223.3	276.5	306.7	366.3
Power input	cooling	kW	39.7	48.1	59.3	71.4	79.3
EER			4.70	4.64	4.66	4.30	4.62
Dimensions	HxWxD	mm	1,860x3,435x920	1,860x3,435x920	1,860x3,435x920	1,860x3,435x920	1,880x4,305x8600
Machine weight		kg	1,650	1,665	1,680	1,680	2,800
Operation weight		kg	1,800	1,810	1,820	1,820	3,020
Sound pressure level		dBA	69.7	69.7	69.7	69.7	71.7
Compressor type			Semi-hermetic single screw compressor				
Capacity steps		%	stepless 12.5-100				
Number of compressors			1	1	1	1	2
Number of refrigerant circuits			1	1	1	1	2
Refrigerant type			R-134a				
Power supply			400V/3~/50Hz				
condensor type			Shell and tube				
Evaporator type			Shell and tube				
Water flow rate	min	l/min	497	550	609	648	994
	max	l/min	1,572	1,740	1,925	2,048	3,145
Minimum water volume in the system		l	22	25	25	25	44

EWWD-DJYNN/A

WATER-COOLED (cooling only)			EWWD400DJYNN/A	EWWD460DJYNN/A	EWWD500DJYNN/A	EWWD550DJYNN/A	EWWD650DJYNN/A
Cooling capacity		kW	408.2	443.6	496	540.5	603.9
Power input	cooling	kW	87.2	95	104.8	114.4	137.7
EER			4.68	4.67	4.73	4.72	4.39
Dimensions	HxWxD	mm	1,880x4,305x860	1,880x4,305x860	1,880x4,305x860	1,880x4,305x860	1,880x4,305x860
Machine weight		kg	2,945	2,955	2,975	2,990	2,990
Operation weight		kg	3,280	3,290	3,315	3,340	3,340
Sound pressure level		dBA	71.7	71.7	71.7	71.7	71.7
Compressor type			Semi-hermetic single screw compressor				
Capacity steps		%	stepless 12.5-100				
Number of compressors			2				
Number of refrigerant circuits			2				
Refrigerant type			R-134a				
Power supply			400V/3~/50Hz				
condensor type			Shell and tube				
Evaporator type			Shell and tube				
Water flow rate	min	l/min	1,089	1,202	1,362	1,533	1,542
	max	l/min	3,444	3,801	4,306	4,847	4,877
Minimum water volume in the system		l	47	50	59	68	68

NEW

EWWD-CJYNN

Water cooled

R-134a

screw

STRENGTHS
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 334–1893kW
- EER up to 4.64
- 1-2-3-4 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass
- Refrigerant side to minimize pressure drops

STANDARD AVAILABLE
- Glycol application
- Main switch
- Gauges
- Electronic expansion valve

OPTIONS (factory mounted)
- Total heat recovery
- Partial heat recovery
- Power factor 0.9
- Suction stop valve
- A/V meter
- Soft starter
- Cu/ni heat exchanger

ACCESSORIES
- Communication cards (EKAC200J – EKACLON)
- Bacnet gateway (EKBMSBNJ)
- Remote user interface (EKRUPCK)
- Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- Sequencing panel (EKCSCII)
- Plant visor (EKPV2J)
- Modem (EKMODEM – EKGSMOD)
- Converter RS485 to RS 232 (EKCON)

WATER-COOLED (cooling only)			EWWD340CJYNN	EWWD400CJYNN	EWWD480CJYNN	EWWD550CJYNN	EWWD700CJYNN	EWWD750CJYNN	EWWD800CJYNN	EWWD900CJYNN	EWWD950CJYNN	EWWDC10CJYNN
Cooling capacity		kW	334	399	462	510	666	735	792	871	934	1,074
Power input	cooling	kW	81.1	90.1	102	109	160	170	180	194	207	250
EER			4.12	4.43	4.49	4.64	4.16	4.3	4.4	4.47	4.51	4.28
Dimensions	HxWxD	mm	1,970x3,310x900	1,970x3,310x900	1,970x3,310x900	1,970x3,310x900	2,070x4,300x1,290	2,070x4,300x1,290	2,070x4,300x1,290	2,070x4,300x1,290	2,070x4,300x1,290	2,320x3,770x2,160
Machine weight		kg	1,830	1,855	1,886	1,965	3,395	3,495	3,515	3,560	3,590	4,960
Operation weight		kg	2,000	2,030	2,050	2,160	3,640	3,910	3,940	3,990	4,020	5,410
Sound pressure llevel		dBA	75.2	76.2	78.2	78.2	77.8	78.2	78.7	79.8	80.7	79.2
Compressor type			Semi-hermetic single screw compressor									
Capacity steps		%	stepless 25-100	stepless 25-100	stepless 25-100	stepless 25-100	stepless 12.5-100	stepless 12.5-100	stepless 12.5-100	stepless 12.5-100	stepless 12.5-100	stepless 8.3-100
Number of compressors			1	1	1	1	2	2	2	2	2	3
Number of refrigerant circuits			1	1	1	1	2	2	2	2	2	3
Refrigerant type			R-134a									
Power supply		YN	400V/3~/50Hz									
condensor type			Shell and tube									
Evaporator type			Shell and tube									
Water flow rate evaporator	min	l/min	342	432	516	504	720	870	840	930	1,140	1,080
	max	l/min	1,152	1,470	1,752	1,710	2,400	3,000	2,820	3,120	3,840	3,660
Water flow rate condensor	min	l/min	626	720	817	936	1,232	1,348	1,447	1,527	1,635	1,974
	max	l/min	1,980	2,278	2,584	2,960	3,896	4,261	4,577	4,829	5,170	6,244

EWWD-CJYNN

WATER-COOLED (cooling only)			EWWDC11CJYNN	EWWDC12CJYNN	EWWDC13CJYNN	EWWDC14CJYNN	EWWDC15CJYNN	EWWDC16CJYNN	EWWDC17CJYNN	EWWDC18CJYNN	EWWDC19CJYNN
Cooling capacity		kW	1,139	1,205	1,268	1,331	1394	1,525	1,629	1,761	1,893
Power input	cooling	kW	261	273	284	297	309	344	366	391	416
EER			4.35	4.41	4.45	4.47	4.51	4.43	4.45	4.5	4.55
Dimensions	HxWxD	mm	2,320x3,770x2,160	2,320x3,770x2,160	2,320x3,770x2,160	2,320x3,770x2,160	2,320x3,770x2,160	2,320x5,151x2,240	2,320x5,151x2,240	2,320x5,151x2,240	2,320x5,151x2,240
Machine weight		kg	4,980	5,110	5,135	5,175	5,205	6,790	6,830	6,890	6,940
Operation weight		kg	5,430	5,630	5,660	5,710	5,740	7,580	7,630	7,690	7,730
Sound pressure level		dBA	79.5	79.8	80.6	81.2	81.8	80.3	80.3	81.9	82.8
Compressor type			Semi-hermetic single screw compressor								
Capacity steps		%	stepless 8.3-100	stepless 8.3-100	stepless 8.3-100	stepless 8.3-100	stepless 8.3-100	stepless 6.25-100	stepless 6.25-100	stepless 6.25-100	stepless 6.25-100
Number of compressors			3	3	3	3	3	4	4	4	4
Number of refrigerant circuits			3	3	3	3	3	4	4	4	4
Refrigerant type			R-134a								
Power supply		YN	400V/3~/50Hz								
condensor type			Shell and tube								
Evaporator type			Shell and tube								
Water flow rate evaporator	min	l/min	1,200	1,200	1,200	1,200	1,200	1,740	1,680	1,632	1,590
	max	l/min	4,080	4,080	40,80	4,080	4,080	5,940	5,700	5,580	5,430
Water flow rate condensor	min	l/min	2,059	2,173	2,284	2,364	2,473	2,749	2,895	3,164	3,268
	max	l/min	6,512	6,872	7,222	7,475	7,821	8,692	9,156	10,006	10,336

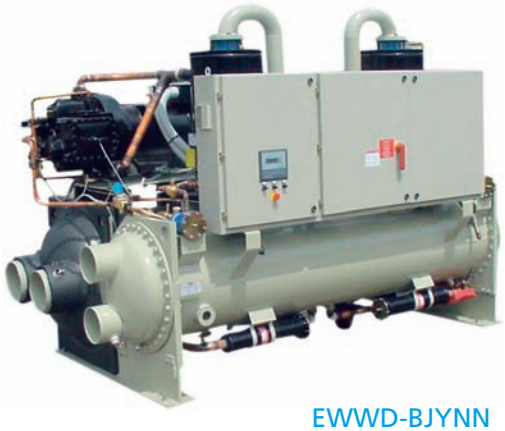
NEW

EWWD-BJYNN

Water cooled

R-134a

screw



EWWD-BJYNN

STRENGTHS
- All models are PED pressure vessel approved
- 1 and 2 stepless single-screw compressors
- Optimised for use with R-134a
- Cooling range: 369–1050kW
- Super high efficiency: EER up to 5,83
- Very high EER values at part loads condition
- Flooded evaporator
- Expansion valve with liquid level control

STANDARD AVAILABLE
- Main switch
- Gauges
- Electronic expansion valve

OPTIONS (factory mounted)
- Glycol application
- Suction stop valve
- A/V meter
- Soft starter
- Cu/ni heat exchanger

ACCESSORIES
- Communication cards (EKAC200J – EKACLON)
- Bacnet gateway (EKBMSBNJ)
- Remote user interface (EKRUPCK)
- Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- Sequencing panel (EKCSCII)
- Plant visor (EKPV2J)
- Modem (EKMODEM – EKGSMOD)
- Converter RS485 to RS 232 (EKCON)

WATER-COOLED (cooling only)			EWWD380BJYNN	EWWD460BJYNN	EWWD550BJYNN	EWWD750BJYNN	EWWD850BJYNN	EWWD900BJYNN	EWWDC10BJYNN	EWWDC11BJYNN
Cooling capacity		kW	369	445	521	734	816	895	976	1,050
Power input	cooling	kW	65	77.9	90	129	142	155	167	180
EER			5.68	5.71	5.79	5.65	5.71	5.77	5.81	5.83
Dimensions	HxWxD	mm	2,250x3,625x1,551	2,250x3,860x1,551	2,250x3,860x1,551	2,300x4,145x1,743	2,300x4,145x1,743	2,300x4,145x1,808	2,300x4,145x1,910	2,300x4,145x1,910
Machine weight		kg	3,089	3,370	3,603	5,546	5,636	6,007	6,448	6,598
Operation weight		kg	3,250	3,588	3,870	5,911	6,045	6,460	6,972	7,163
Sound pressure level		dBA	78	79	80	81	81.5	82	82.5	83
Compressor type			Semi-hermetic single screw compressor							
Capacity steps		%	stepless 25-100	stepless 25-100	stepless 25-100	stepless 12.5-100	stepless 12.5-100	stepless 12.5-100	stepless 12.5-100	stepless 12.5-100
Number of compressors			1	1	1	2	2	2	2	2
Number of refrigerant circuits			1							
Refrigerant type			R-134a							
Power supply		YN	400V/3~/50Hz							
Condensor type			Shell and tube							
Evaporator type			Flooded shell and tube							
Water flow rate evaporator	min	l/min	565	615	776	932	1,216	1,209	1,382	1,632
	max	l/min	1,788	1,945	2,455	2,946	3,846	3,825	4,370	5,162
Water flow rate condensor	min	l/min	665	948	1,086	1,478	1,703	1,904	1,924	2,146
	max	l/min	2,103	29,98	3,435	4,675	5,386	6,020	6,085	6,786

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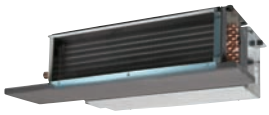


FWV02C

FWL03C

FWL03C

FWM03C

FWM03C

FWD12A

FWD12A

Fan coil units

Daikin fan coil units offer you a quiet, reliable and comfortable solution of air conditioning. Connected to a water chiller, heat pump or hot water boiler, they provide cooling and/or heating when and where required. Their timeless and elegant design and whisper quiet fan make them ideal for use in offices, hotels and even at home.

TABLE OF CONTENTS

The new range of fan coil units offers a wide choice of 5 models, 3 of which are flexible in application (horizontal or vertical installation). To complete our portfolio, a wide range of options and accessories is available.

72	**FWV**	low wall unit
72	**FWL**	flexi type
72	**FWM**	concealed flexi type
73	**FWB**	small duct
74	**FWD**	duct unit

FWV/FWL/FWM

	FWV/FWL/FWM01-10C**			01	02	03	04	06	08	10
2-pipe	COOLING	total capacity (H)	kW	1.54	2.09	2.93	4.33	4.77	6.71	8.02
		sensible capacity (H)	kW	1.20	1.51	2.11	3.15	3.65	4.91	5.96
		water flow	l/h	265	359	504	745	820	1,154	1,343
		pressure drop	kPa	13	13	11	12	14	12	19
	HEATING	heating capacity (H)	kW	2.14	2.57	3.81	5.63	6.36	7.83	11.1
		water flow	l/h	265	359	504	745	820	1,154	1,498
		pressure drop	kPa	9	11	9	9	10	9	13
	Power input	max.	W	37	53	56	98	98	182	244
	Coil water volume		l	0.5	0.7	1	1.4	1.4	2.1	2.1
	Air flow (H/M/L)		m^3/h	319/233/178	344/271/211	442/341/241	706/497/361	785/605/470	1,011/771/570	1,393/1,022/642
	Sound power level	H/M/L	dBA	45/39/33	50/44/38	47/41/33	52/43/35	56/49/43	61/54/47	66/59/49
	Weight	FWV	kg	19	20	25	30	31	41	41
		FWL	kg	20	21	27	32	33	44	44
		FWM	kg	14	15	19	23	23	32	32
4-pipe	COOLING	total capacity (H)	kW	1.46	1.90	2.87	4.33	4.67	6.64	7.88
		sensible capacity (H)	kW	1.14	1.51	2.07	3.15	3.57	4.85	5.85
		water flow	l/h	251	327	494	745	803	1,142	1,355
		pressure drop	kPa	13	13	11	12	14	12	19
		cooling coil water volume	l	0.5	0.7	1	1.4	1.4	2.1	2.1
	HEATING	heating capacity (H)	kW	1.90	2.10	3.08	5.05	5.30	7.91	9.30
		water flow	l/h	196	182	286	396	465	694	816
		pressure drop	kPa	7	8	5	10	10	8	9
		heating coil water volume	l	0.2	0.2	0.3	0.4	0.4	0.6	0.6
	Power input	max.	W	37	53	56	98	98	182	244
	Air flow	H/M/L	m^3/h	307/225/174	327/261/205	431/332/238	690/490/356	763/593/460	998/765/565	1,362/1,007/636
	Sound power level	H/M/L	dBA	45/39/33	50/44/38	47/41/33	52/43/35	56/49/43	61/54/47	66/59/49
	Weight	FWV	kg	20	21	26	32	33	44	44
		FWL	kg	21	22	28	34	35	46	46
		FWM	kg	15	16	20	25	25	34	34
2-pipe/4-pipe	Water connections		inch	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"
	Max. operating pressure		bar	10	10	10	10	10	10	10
	Max. absorbed current		A	0.17	0.24	0.25	0.44	0.43	0.80	1.12
	Dimensions	FWV/FWL	mm	564x774x226		564x984x226	564x1,194x226		564x1,404x251	
		FWM	mm	535x584x224		535x794x224	535x1,004x224		535x1,214x249	
	Power supply		V/~/Hz	230/1/50						

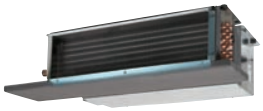
Legend:
** : TN (2-pipe, without valves) - TV (2-pipe, with ON/OFF valves) - FN (4-pipe, without valves)

OPTIONS FWV / FWL / FWM

Option description	01	02	03	04	06	08	10	FWV	FWL	FWM
Additional single row heat exchanger*	ESRH02A6		ESRH03A6	ESRH06A6		ESRH10A6		x	x	x
Electric heater**	EEH01A6	EEH02A6	EEH03A6	EEH06A6		EEH10A6		x	x	x
2-pipe ON-OFF 3-way motor driven valve with complete mounting kit*	E2MV03A6			E2MV06A6		E2MV10A6		x	x	x
4-pipe ON-OFF 3-way motor driven valve with complete mounting kit*(**)	E4MV03A6			E4MV06A6		E4MV10A6		x	x	x
Fan stop thermostat** (only for ECFWMB6)	YFSTA6							x	x	x
Air intake & discharge grille + front filter fixing kit for concealed models	EAIDF02A6		EAIDF03A6	EAIDF06A6		EAIDF10A6		-	-	x
Supporting feet (= supporting brackets + covers)	ESFV06A6					ESFV10A6		x	-	x
Supporting feet + grille	ESFVG02A6		ESFVG03A6	ESFVG06A6		ESFVG10A6		x	-	-
Manual fresh air intake louver	EFA02A6		EFA03A6	EFA06A6		EFA10A6		x	-	x
Rear panel for vertically installed units	ERPV02A6		ERPV03A6	ERPV06A6		ERPV10A6		x	x	-
Controller - electromechanical built-in**	ECFWMB6							x	x	-
Controller - electronic built-in + water probe**	ECFWEB6							x	x	-
Controller - electronic remote + water probe	ECFWER6							x	x	x
Power interface for connection of up to 4 FCU to a single control panel	EPIMSA6							x	x	x
Vertical drain pan	EDPVA6							x	x	x
Horizontal drain pan	EDPHA6							-	x	x

* Can be ordered factory mounted
** factory mounted on request

FWB



	FWB02-10AT			02	03	04	05	06	07	08	09	10
2-pipe	COOLING	total capacity (H)	kW	2.61	3.14	3.49	5.08	5.45	6.47	7.57	8.67	10.34
		sensible capacity (H)	kW	1.88	2.16	2.34	3.6	3.87	4.4	5.23	5.96	6.9
		water flow	l/h	448	539	598	873	936	1,111	1,299	1,488	1,774
		pressure drop	kPa	8	14	11	15	8	14	21	21	26
	HEATING	heating capacity (H)	kW	5.47	6.01	6.47	10.31	11.39	12.28	15.05	16.85	18.78
		water flow	l/h	480	527	567	904	999	1,077	1,319	1,479	1,647
		pressure drop	kPa	7	10	8	12	7	10	16	15	18
	Machine weight		kg	23	24	26	31	33	35	43	45	48
	Dimensions	HxWxD	mm	239x1,039x609			239x1,389x609			239x1,739x609		
Add. heat exch.	HEATING	heating capacity (H)	kW	3.14			5.99			12.8		
		water flow	l/h	275			526			1,123		
		pressure drop	kPa	3			5			8		
2-pipe/4-pipe	Air flow rate		m^3/h	400			800			1,200		
	Power input (H)		W	106			192			294		
	Max. absorbed current		A	0.51			0.94			1.28		
	Available static pressure		Pa	71			65			59		
	Sound power level (H)		dBA	58			60			69		
	Power supply						230V/1~/50Hz					

OPTIONS FWB

Option description	02	03	04	05	06	07	08	09	10
Additional heat exchanger	EAH04A6			EAH07A6			EAH10A6		
3-way valve std h/e	Factory mounted on request								
3-way valve add. h/e	E2MV307A6						E2MV310A6		
2-way valve std h/e	Factory mounted on request								
2-way valve add. h/e	E2MV207A6						E2MV210A6		
Electric heater	Factory mounted on request								
Fan stop thermostat	YFSTA6								
Power interface (*)	-						EPIA6		
Master slave interface (*)	EPIMSA6								
Controller electronic - remote	ECFWER6								

(*) In combination with ECFWER6, EPIMSA6 or EPIA6 must be installed for FWB08-10

FWD

	FWD04-18A*			04	06	08	10	12	16	18
2-pipe	COOLING	total capacity	kW	3.90	6.20	7.80	8.82	11.90	16.4	18.3
		sensible capacity	kW	3.08	4.65	6.52	7.16	9.36	12.8	14.1
		water flow	l/h	674	1,064	1,339	1,514	2,056	2,833	3,140
		pressure drop	kPa	17	24	24	16	26	34	45
	HEATING	heating capacity	kW	4.05	7.71	9.43	10.79	14.45	19.81	21.92
		water flow	l/h	674	1,064	1,339	1,514	2,056	2,833	3,140
		pressure drop	kPa	14	20	20	13	21	28	37
	Available static pressure		Pa	66	58	68	64	97	145	134
	Weight		kg	33	41	47	49	65	77	80
4-pipe	COOLING	total capacity	kW	3.90	6.20	7.80	8.82	11.90	16.4	18.3
		sensible capacity	kW	3.08	4.65	6.52	7.16	9.36	12.8	14.1
		water flow	l/h	674	1,064	1,339	1,514	2,056	2,833	3,140
		pressure drop	kPa	17	24	24	16	26	34	45
	HEATING	heating capacity	kW	4.49	6.62	9.21	9.21	15.86	21.15	21.15
		water flow	l/h	349	581	808	808	1,392	1,856	1,856
		pressure drop	kPa	9	15	13	13	12	16	16
	Available static pressure		Pa	63	53	63	59	92	138	128
	Weight		kg	35	43	50	52	71	83	86
2-pipe/4-pipe	Air flow rate		m^3/h	800	1,250	1,600	1,600	2,200	3,000	3,000
	Power input (H)		W	234	349	443	443	714	1197	1197
	Max. absorbed current		A	0.95	1.58	1.97	1.97	3.21	5.37	5.37
	Dimensions	HxWxD	mm	280x754x559	280x964x559	280x1,174x559		352x1,174x718	352x1,384x718	
	Sound power level (H)		dBA	66	69	72	72	74	78	78
	Power supply		V/~/Hz	230/1/50						

Legend:
*: T (2-pipe)
F (4-pipe)

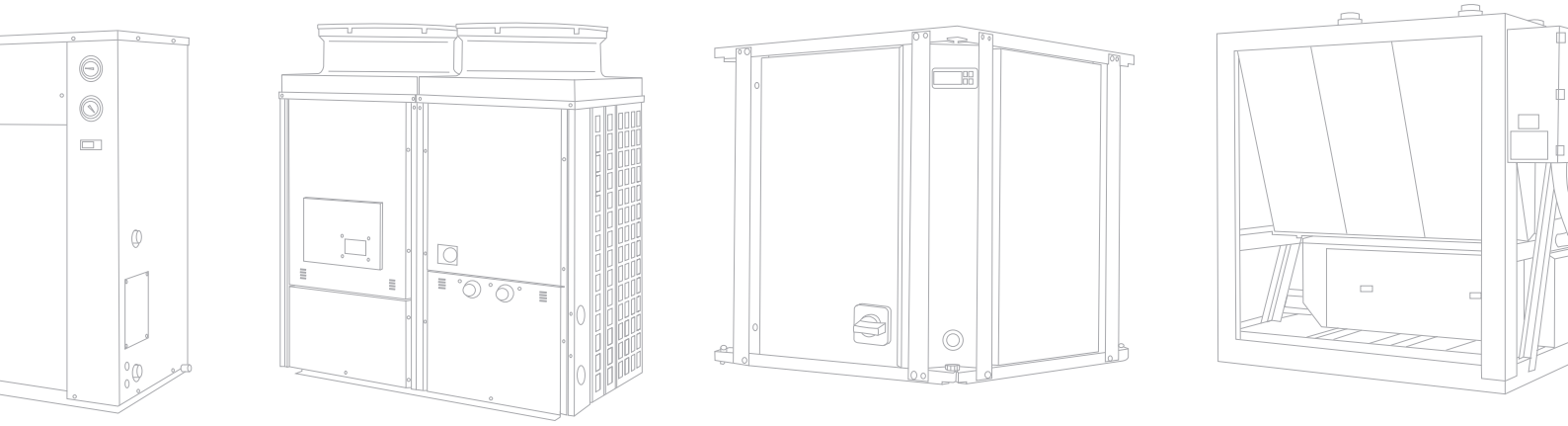
OPTIONS FWD

	Option description	04	06	08	10	12	16	18
	Electric heater: small (2)	EDEH04A6	EDEHS06A6	EDEHS10A6		EDEHS12A6	EDEHS18A6	
	Electric heater: big (2)	EDEH04A6	EDEHB06A6	EDEHB10A6		EDEHB12A6	EDEHB18A6	
	2-pipe 3-way valve (1)	ED2MV04A6	ED2MV10A6			ED2MV12A6	ED2MV18A6	
	4-pipe 3-way valve (1)	ED4MV04A6	ED4MV10A6			2 x ED2MV12A6	2 x ED2MV18A6	
	Vertical drain pan	EDDPV10A6					EDDPV18A6	
	Horizontal drain pan	EDDPH10A6					EDDPH18A6	
	Fan stop thermostat	YFSTA6						
	Fresh air intake louvers (motorised)	EDMFA04A6	EDMFA06A6	EDMFA10A6		EDMFA12A6	EDMFA18A6	
	Controller - electronic remote + water probe (3)	ECFWER6						
	Master / Slave Interface (4)	EPIMSA6				-	-	-
	Power interface (5)	-	EPIA6					

Notes:
1. The valves for FWD12-16-18 do not contain piping nor drain pan.
2. Requires electronic control.
3. Neglecting the absolute requirement to install an additional interface (EPIA6 or EPIMSA6) to FWD06 -->18 may cause fire or other damage to the equipment.
4. In combination with ECFWER6, EPIMSA6 or EPIA6 must be installed for FWD06-10.
5. In combination with ECFWER6, EPIA6 must be installed for FWD12-18.

MEASURING CONDITIONS

CHILLERS			
Air-cooled	Cooling	Water 7°C / 12°C	Ambient temperature : 35°C
	Heating	Water 45°C / 50°C	Ambient temperature : 7°C
Remote evaporator		Suction dewpoint : 5°C	Ambient temperature : 35°C
Remote condenser	Cooling	Water 7°C / 12°C	Condensing temp : 45°C
			Liquid temp. : 40°C
Water-cooled	Cooling	Evaporator water : 7°C / 12°C	Water condenser : 30°C / 35°C
	Heating	Evaporator water : 7°C / 12°C	Water condenser : 40°C / 45°C
Fan coil units	Cooling	Room temperature : 27°C / 19°C	
		Entering water temperature: 7°C / 12°C	
	Heating	Room temperature : 20°C	
		Entering water temperature: 50°C (2-pipe) • 70°C (4-pipe)	



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